

DEMOLITION AMERICAS

PROFESSIONAL

Your Gateway to North, Central and South America

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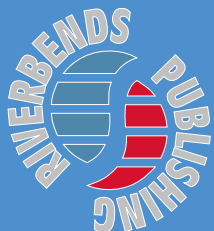
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Arrested Development

OK, I admit it. I was among those who eagerly jumped aboard the autonomous vehicle (AV) bandwagon a few years ago. But it wasn't because of mass market media hype. After attending several sessions at the National Academies' 2018 Transportation Research Board Annual Meeting that detailed the variety of cutting-edge sensor technologies and real-world testing programs, it was hard not to believe that the dawn the Space Age driverless future was just up the road. And maybe personal jetpacks would soon follow!

While all that enthusiasm may not have been misplaced, it certainly proved to be premature. It turns out that the act of driving is pretty complex—far more so than the simple turns, stops, and open-road cruising found in most of those demonstrations. Duplicating the human brain's power to see and process an infinite range of decisions in a blink of an eye remains beyond the reach of even the most artificial intelligence-packed systems.

Countering AVs' raft of routine successes is a crash rate double that of conventional vehicles, several dozen of which have resulted in fatalities. Not all the incidents are the technology's fault of course, and a lot of streets and highways aren't well-suited for human drivers, let alone artificial ones. Still, it's understandable why most people are highly skeptical of AVs and their purported promises.

Construction sites, on the other hand, are proving to be a place where AVs and their associated robotic technologies can make inroads. (The industry already has a bit of "history" with high-tech tools, thanks to demolition robots—more accurately called remote-controlled demolition machines, as they are not truly "automated.") Most innovations are focused on specific tasks, such as the rebar-tying TyBot for bridge decks and other large installations, and Hilti's semi-automated Jaibot drill for MEP installation and interior finishing.

In addition, Built Robotics has a custom-built excavator for fully autonomous

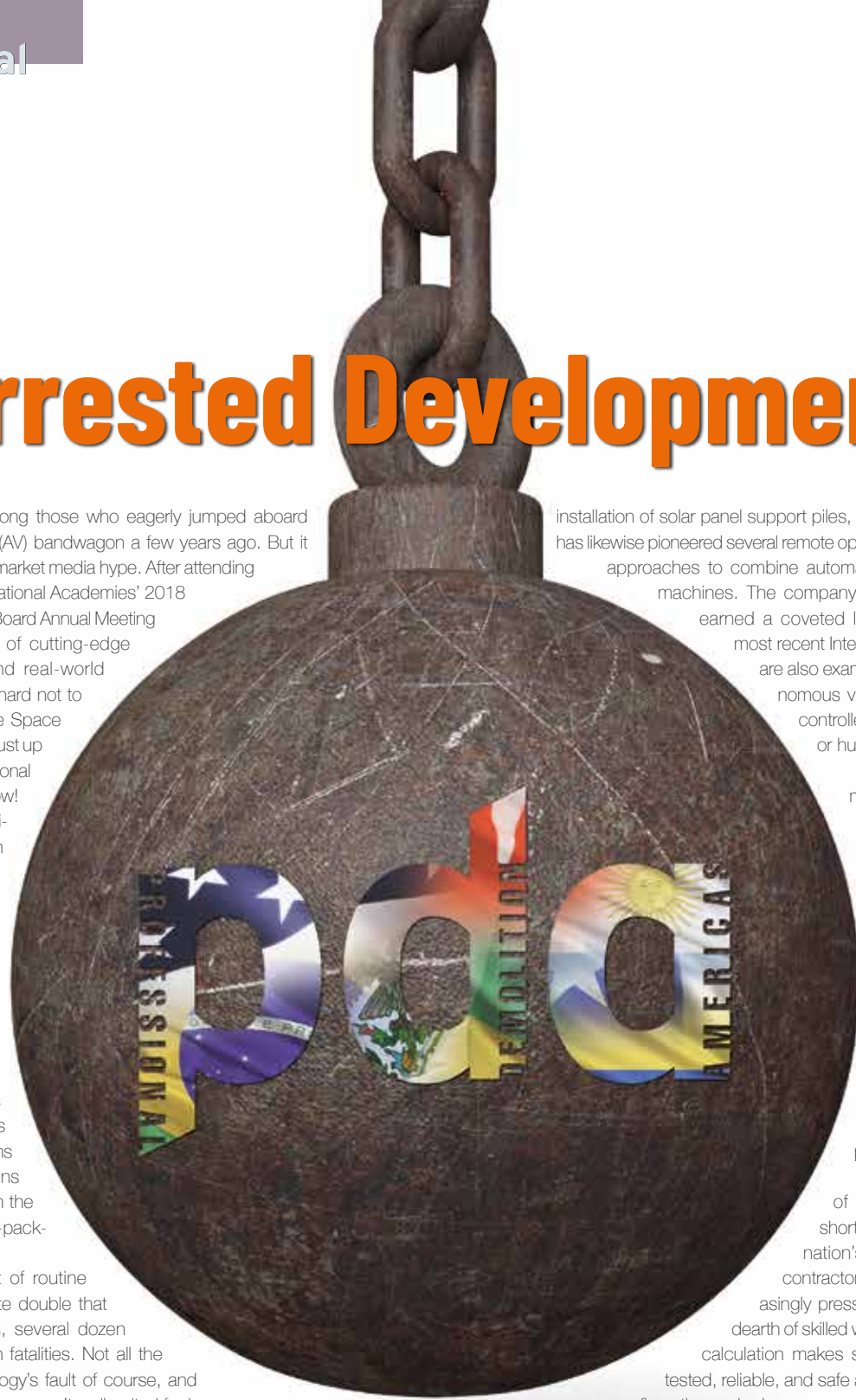
installation of solar panel support piles, while Moog Construction has likewise pioneered several remote operation and motion control approaches to combine automation with zero-emission machines. The company's TerraTech EcoSystem earned a coveted Innovation Award at the most recent Intermat show in Paris. There are also examples of larger semi-autonomous vehicles roaming jobsites, controlled from hundreds of feet or hundreds of miles away.

Several factors help make construction sites ideal setting for AV and robotics technology to find their footing, and potentially flourish. They're typically small and self-contained, the tasks they're handling are relatively simple and repetitive, and there's an established safety culture that already stresses constant vigilance to potential hazards.

There's also the matter of need. While there's no shortage of motorists filling the nation's millions of lane miles, contractors of all stripes are increasingly pressured to make up for the dearth of skilled workers. If the cost/benefit calculation makes sense, then opting for a tested, reliable, and safe automation tool becomes a figurative no-brainer.

It stands to reason that AV and robotics technologies likely will continue to improve, gradually overcoming the current practical limitations and, in time, consumer reluctance to adopt them. Though it may be hard to see on-site concrete drilling and sawing tasks robotized, nothing seems beyond the imagination.

Now, about those jetpacks...



Jim Parsons, Senior Editor
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PDA Magazine is pleased to present regular updates from the US National Demolition Association. This column comes from NDA Executive Director Jeff Lambert.

NDA Celebrates Growth

As we turn from summer towards autumn, I am thrilled to share the National Demolition Association's latest developments and resources, reflecting our steadfast dedication to industry safety, education, and growth.

Latest Podcast Episode

Episode 35 of NDA's Demolition NOW podcast is a must-listen. This episode highlights the vital role of women in demolition, featuring a conversation between Connie Clearwater of Priestly Demolition, Ontario, and Kayla Lindamood, CEO and president of Lindamood Demolition, Texas. Connie shares her journey, the challenges she has faced and her successes in the industry.

Episode 36 features NDA Safety Committee Chair John Satterwhite of ROMCO Equipment highlighting our Safe + Sound Week, which are valuable throughout the year. NDA Membership and Marketing Committee member Connie Clearwater sits down with Ryan Priestly, CEO of Priestly Demolition, and Danial Thomas, President of Green City Demolition, on how the two companies joined together.

Both episodes include an essential federal and legislative update from our director of government affairs, Alex McIntyre. You can subscribe to the podcast through iTunes or Stitcher, or catch up on specific episodes at NDA's website.

Membership Growth Update

I am proud to report that our membership has surged to 468 companies. The Annual Convention & Expo in San Antonio was a standout event, drawing over 1,462 attendees — 400 more than last year. The Expo hosted 108 exhibitors, and the Live DEMOLITION Event saw participation from over 1,000 attendees, showcasing 46 pieces of machinery.

Our analysis indicates that 315 attendees, representing approximately 150 companies, came from our prospect list. With 20 new membership inquiries already in progress, we are actively working with the Member Growth Committee to engage 19 additional hot prospects. Our ambitious goal is to surpass 500 members by Dec. 31.

Committee Updates

Our committees are making significant strides:

- The Industry Committee has reviewed OSHA's feedback on the Pre-Apprenticeship Guidance document.
- The Safety Committee is finalizing the Spanish translation of our extensive Demolition Safety Talks library.
- The Convention Committee is preparing for next year's event, including subcommittee formation and meeting schedules.
- The Government Affairs Committee has achieved a major victory by advocating successfully for the Environmental Protection Agency to deny a petition to classify PVC as hazardous waste.

Additionally, we have launched new webpages dedicated to government affairs and advocacy, offering members tools to track legislation, engage with legislators and access the latest federal guidance affecting our industry.

Encourage Others to Join NDA

With a goal of exceeding 500 members by year-end, we encourage all demolition professionals to join NDA and take advantage of our extensive resources and programs. Together, we can continue to advance our industry and ensure a safe and prosperous future.

Thank you for your continued support and commitment to NDA. And remember there's always plenty of information available at demolitionassociation.com.

Jeff Lambert
Executive Director

www.demolitionassociation.org

Bobcat Breaks Ground for Mexico Manufacturing Facility



Bobcat held a ceremonial groundbreaking this past June for its new \$300-million manufacturing facility in Mexico.

Located in the Salinas Victoria municipality, outside of Monterrey in the state of Nuevo Leon, the 700,000-ft² (65,000m²) facility is expected to be operational in 2026. It will expand Bobcat's existing global footprint to create additional production capacity and manufacturing capabilities for select compact track and skid-steer loader models. Bobcat's compact loaders will continue to be produced in the U.S. and the Czech Republic.

The new facility will seek LEED Silver certification and feature state-of-the-art technology with an emphasis on quality, precision, and energy efficiency.

"We have seen tremendous growth across our business, and this new facility will support our long-range plans for increased production to meet customer demand," Scott Park, Doosan Bobcat CEO and Vice Chairman said at the ceremony. "This groundbreaking represents our commitment to our customers—present and future—who are ready to accomplish more with our equipment."

"We look forward to growing our man-



ufacturing footprint in the Salinas Victoria community for its excellent industrial sector, skilled workforce and strong business environment," added Mike Ballweber, Doosan Bobcat North America President. "Our investment here demonstrates our confidence in this manufacturing environment and thriving local economy."

The design team includes U.S.-based Shultz + Associates Architects and Mexico-based GP Construcción, a division of Grupo GP, as the construction manager. Shultz + Associates Architects has partnered with Bobcat on the design and architecture of many of its North American locations. GP Construcción specializes in industrial parks and facilities across Mexico. The new factory is expected to create as many as 800 jobs in the region.

www.bobcat.com



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New Partnership Brings Brandt Material Handler to Midwestern US

The Midwest metal recycling industry now has access to the new, purpose-built Brandt Material Handler, thanks to a partnership between Brandt Industries and Murphy Tractor & Equipment Co. This partnership makes Murphy Tractor & Equipment Co. the first Brandt Material Handler dealer in the country.

The Brandt Material Handler is the only material handler designed, manufactured, and supported in North America. Built on the John Deere platform, it delivers unmatched productivity and uptime, with easy-to-find components and support through local dealerships.

Murphy Tractor & Equipment Co. was founded in 1982 and is headquartered in Park City, Kan. One of John Deere's largest North American construction equipment dealers, Murphy has 29 locations throughout Iowa, Kansas, Missouri, Nebraska, and Ohio. Adding the Brandt Material Handler to its existing product offering will enable Murphy to provide a new option to increase efficiency and productivity for their metal recycling customers.



"The fact that the Brandt Material Handler is built in North America is a major advantage for our customers, who won't have to wait for shipments of machines and parts from overseas," says Jim Craig, Murphy's general sales manager for road building and aggregates. "Having the Brandt and Deere names on this machine is a huge benefit for us, because of the quality they both bring to the industry."

www.brandt.ca

Meet Liebherr's Trina Baughman

With load planning and fleet management technology constantly evolving, many teams find themselves in need of a guide to show them the ropes. That's where Trina Baughman, Liebherr's product manager for digital products comes in. Known for her strong work ethic and passion for product, Baughman is frequently on the road training customer teams on how to use the MyLiebherr online portal, which gives customers an extensive range of services including digital services and application software specific to the machines in their fleet. Through Baughman's time working with the portal, she has been able to see its innovations firsthand with prominent updates to programs like Crane Planner 2.0, Liebherr's advanced lift planning software, and Crane Finder, an online tool to help customers find the right crane for their next project.

"The exponential growth of MyLiebherr and the services it provides make users enthusiastic when they use it," she says. "Their excitement about the product constantly feeds my passion for this industry."

Baughman works closely with the Liebherr factories, learning about new programs or technology within MyLiebherr as well as collaborating with the factory team



to develop new features for users. This allows her not only to provide more in-depth training to teams across the country, but also provides an opportunity to advocate for upgrades and adjustments that better serve the U.S. market.

Having previously served as a Liebherr Service Coordinator and Nationwide Service Manager, Baughman welcomed the opportunity to again work closely with customers. Regardless of where she is, Baughman's positive energy and powerful work ethic always leave a lasting impression.

www.liebherr.com

Event Calendar

BAUMA CHINA 2024

November 26-29, 2024
Shanghai Exhibition Center,
Shanghai, China
www.bauma-china.com

DEMTECH - bauma Conexpo India 2024

India Expo Centre
Plot No. 23/25, Knowledge Park II,
Greater Noida, New Delhi
India
www.bcindia.com

World of Concrete 2025

January 21-23, 2025
Las Vegas Convention Center,
Las Vegas, Nevada
www.worldofconcrete.com

ARA RENTAL SHOW 2025

January 29 - Feb 1, 2025
Las Vegas Convention Center,
Las Vegas, Nevada
www.arashow.org

DEMOLITION SAN ANTONIO 2024 NATIONAL DEMOLITION ASSOCIATION CONVENTION 2024

March 5 - 8, 2025
Ernest N. Morial Convention Center,
San Antonio, Texas
www.demolitionassociation.com

BAUMA 2025

April 7 -13, 2025
Munich Exhibition Center,
Munich, Germany
www.bauma.de

ISRI 2025/ReMa 2025

May 12-15, 2025
San Diego Convention Center,
San Diego, USA
www.rema2025.com

CANADIAN CONCRETE EXPO 2025

Feb 12-13, 2025
International Center Toronto,
Canada
www.canadianconcreteexpo.com

CONEXPO - CON/AGG

March 3-7, 2026
Las Vegas Convention Center,
Las Vegas, Nevada
www.conexpoconagg.com



Sexton Joins OTR as Global VP of Engineering and Innovation

Patrick Sexton is the new Global Vice President of Engineering and Innovation for OTR Engineered Solutions. He will oversee OTR's engineering team worldwide, ensuring all activities align with strategic goals.

"It's an exciting time at OTR, as we're not only investing heavily in product development, but also advancing technology and building global infrastructure," says Tom Rizzi, President and CEO. "Patrick will be a great addition to OTR's executive team, and he'll help us continue to innovate and grow."

Sexton offers vast experience in energy, electrification, automotive, and similar industries. He has led the development of various products and solutions for leading technology companies, serving in both engineering and executive-level positions. He also has a background in providing technical and strategic consulting. Throughout his career, he has been awarded 10 patents, with others currently in process. A native of Ireland, Sexton earned a degree in mechanical and manufacturing engineering from Munster Technical University in Cork. After spending some of his career in the United Kingdom, he moved to the U.S., where he recently became a citizen.

www.otrwheel.com



DEVELON Celebrates Grand Opening of New Customization Plant

DEVELON recently celebrated the grand opening of its new North American customization plant in Brunswick, Ga., on Wednesday, Sept. 4. The new 93,000-sq-ft (8,640m²) facility is 50% larger than DEVELON's existing customization plant in Savannah, Ga., opened in 2019. Rapid demand for DEVELON products necessitated the relocation in order to provide the needed long-term production capacity, as well as a dedicated machine storage yard, and an expanded indoor warehouse.

The new facility will be operated jointly by DEVELON and logistics specialist Wallenius Wilhelmsen, ensuring that each type of equipment is configured and assembled

to the highest quality standards. HD Hyundai Construction Equipment, DEVELON's parent company, will also use the facility to customize its branded products prior to delivery to dealers.

The customization facility's close proximity to Interstate 95, allowing for convenient transportation once the machines are ready for shipment, optimizing delivery lead times.

Georgia is already home to multiple DEVELON operations. The North American headquarters in Suwanee includes a parts distribution center for readily available DEVELON machine parts. Earlier this year, the company opened a dedicated product warehouse in the state.



Solar Panels Brighten Power Use at Takeuchi's US Facilities

Takeuchi is fully committed to being good global citizens who contribute to environmental preservation by developing and implementing sustainable technologies wherever and whenever possible. Recently, Takeuchi-US put that plan into action by installing energy-efficient solar panels at its locations in Pendergrass, Ga., and Moore, S.C. The new solar panels will cover about 85 percent of the energy needs at those two facilities. The remaining 15 percent will be sourced as green energy from local electrical suppliers, allowing Takeuchi's U.S. locations to remain carbon neutral throughout the year. To help offset the solar installation project's costs, Takeuchi will apply for tax credits that the Inflation Reduction Act provides for eligible renewable energy projects.

"The first building to 'go live' was our South Carolina office building in February 2024," said Jeff Stewart, president of Takeuchi-US. "That was quickly followed by our Training Center in Pendergrass, Georgia and then the manufacturing plant in South Carolina. Finally, the machine distribution center, corporate office and main distribution center in Pendergrass came online in early July."

The solar panel installation project is the latest example of Takeuchi's commitment to going green in the U.S. By the end of next year, the company will have converted both facilities to LED lighting. The three-year-old Pendergrass Training Center was built with all high-efficiency building systems.

"Moving our facilities to a carbon-neutral position helps us live out our commitments

and achieve our goals by being a better global partner," Stewart says. "We try to take steps that will ensure the long-term success of not only Takeuchi, but also those who work with and around us."

www.takeuchi-us.com



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Brazil's Envimat Repeats as Sennebogen's Top Americas Dealer

It was a familiar sight at the recent Recycled Materials (ReMa) show, as Envimat received its second consecutive SENNEBOGEN Americas Dealer of the Year honor.

"Although SENNEBOGEN material handlers are relatively easy to sell because of their engineering and overall product quality, their customers expect their machines to be able to operate 24 hours a day," Vinicius Casselli, Director of Envimat, said. To make that happen, Casselli has an "army" of factory-trained mechanics to do just that.

Tyler Equipment Company, with company offices in Massachusetts and Connecticut, was this year's first runner-up, while Tractor & Equipment Company of Alabama was second runner-up.

Initially, Envimat was well known in the forestry industry and made their mark there. However, based on that history, Casselli says he brought in steel, scrap, and recycling market specialists "because they know the business of our customers, and understand the challenges they face every day." He adds that while sales teams are well-versed with

the SENNEBOGEN product line, the specialists bring something new to each situation.

"We know what the customers want and we see it as part of our job to be their equipment partner and help the customer be more profitable," Casselli says. "They can do that when we have earned their trust and we work with them to choose the right machines with the right attachment for their operations and applications."

Casselli notes that the success of Envimat is also due to the support provided by SENNEBOGEN America and its President, Constantino Lannes. He says the SENNEBOGEN team is there every month and works with new customers to maximize their investment.

"Constantino is also here regularly, and we are working with him all the time," Casselli says. "He is so knowledgeable. Our customers love to talk with him especially as he speaks their business language but is also fluent in Portuguese and Spanish."

www.sennebogen-na.com



Envimat (EN): (From left) Erich Sennebogen, Carlos Oliveira (EN), Colleen Miller, Vinicius Casselli (EN), Constantino Lannes, Fernando Strobel



Tyler Equipment Company (TE): (From left) Erich Sennebogen, Brooke Tyler IV (TE), Colleen Miller, Garth Field (TE), Michael Jones (TE), Constantino Lannes.



Tractor & Equipment Company TEC: (From left) Erich Sennebogen, Joe Patton (TEC), Frazier Shoults (TEC), Andrew Petit (TEC), Colleen Miller, Chad Stracener (TEC), Constantino Lannes, Robert Boehme (TEC), Ryan Zenor

Proceq/Screening Eagle Technologies Names Exploration Instruments Exclusive US Rental Partner

Proceq/Screening Eagle Technologies has named Exploration Instruments of Austin, Texas, as the exclusive U.S. renter of Proceq and Pundit ground penetrating radar and other structural test and defect-detection products. Products available for rental from Exploration Instruments include:

Proceq GP8100 Step Frequency Array GPR
Highly productive portable concrete GPR array, enabling quick object detection and superior data collection.

Proceq GP8000 Stepped-Frequency Continuous-Wave GPR
Portable concrete GPR radar. Faster, easier concrete inspections and structural imaging with SFCW ground penetrating radar technology.

Proceq GP8800 Handheld Stepped-Frequency Continuous-Wave GPR
Concrete inspections and structural imaging with SFCW ground penetrating radar technology in a palm-sized package.

Pundit PD8050 8 Channel Ultra Sonic Array
Consolidated power in a single device for structural imaging, object, and defect detection with ultrasound pulse echo.

Pundit PI8000 Pile Integrity Impact Echo
Pile quality testing, concrete plate thickness measurement and defect detection.

www.screeningeagle.com
www.exiusa.com

Sennebogen Expands US Manufacturing Facility

SENNEBOGEN recently held a groundbreaking ceremony for a 161,000-ft² (15,000-m²) expansion of its US subsidiary's manufacturing facility in Gaston County, N.C.

Launched in 2000, SENNEBOGEN LLC initially occupied a modest rented space. Nine years later, thanks to dynamic growth, the company was able to move into its own location with offices, training rooms and a large spare parts warehouse. That building was doubled just four years later to accommodate continued growth in the company's key markets

The latest expansion adds three training rooms and halls, new offices, a spacious, highly innovative apprenticeship workshop based on the German model, and a presentation and demonstration area to serve sales partners and custom-



Gaston County Commissioner Jamie Lineberger (left), Erich Sennebogen, Sennebogen LLC Managing Director Constantino Lannes, NC State Representative Ted Alexander, and others from across the Americas.

With more than 100 employees and

the continued market success of the last 24 years, this investment forms the basis for SENNEBOGEN LLC's further expansion of the company's market leadership in the scrap, steel fabrication, timber, port operations, and waste management industries.

www.sennebogen.com



A SENNEBOGEN material handler at the groundbreaking ceremony.



SENNEBOGEN Partner Erich Sennebogen (left), Partner, NC State Representative Ted Alexander, and SENNEBOGEN LLC Managing Director Constantino Lannes.

Tyrolit Hydrostress AG Celebrates Its 50th Anniversary

Tyrolit Hydrostress AG, the Tyrolit Group's Switzerland-based Swiss concrete processing machine specialist recently celebrated its 50th year in business, welcoming more than 100 guests, including numerous business

partners, customers, and suppliers for a full day of activities that included a boat trip and brewery tour. Acquired by the Tyrolit Group in 2001, Tyrolit Hydrostress AG traces its roots to 1974 when the original engineering office of multi-industry tool manufacturer Hans Bieri was spun off as a separate company. Many industry milestones followed. The world's first fully hydraulic wall saw was launched in 1983, followed in 1998 by the world's first fully automatic small wall saw. In 2015, Tyrolit Hydrostress AG debuted the world's lightest compact wall saw, the WSE811. Two years later, the company developed the ATEX-certified wire sawing system for Class I hazardous areas.



Development of the WSE 1621 in 2018 marked an evolutionary leap in the field of wall saws. The most recent milestone came in 2023, with development and launch of the first Tyrolit floor grinding machines.

"We look back with pride on the 50-year history of Tyrolit Hydrostress with all its innovations and look forward to many more

successful years," Andreas Sauerwein, a member of the Tyrolit Executive Board and Managing Director of the Construction Division, said at the anniversary event. "With our vision 'The future of construction', we continue to set standards and shape the construction industry of tomorrow."

www.tyrolit.com



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Operating time 6 hours

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Steelwrist Inaugurates New North American Headquarters



Steelwrist, the fastest growing tiltrotator supplier in North America, inaugurated its new headquarters in Newington, Conn., in May. This significant milestone marked a major expansion for Steelwrist's operations, enhancing its capacity to serve the rapidly growing North American market. The inauguration event was attended by U.S. Senator Richard Blumenthal, executives from the Association

of Equipment Manufacturers (AEM), dealers, customers, and the complete Steelwrist team in North America.

"This inauguration represents a significant step forward for Steelwrist in North America and with the new facility we can continue our exceptional growth trajectory and even better serve our customers and dealers in the region," Steelwrist CEO Stefan



Stockhaus told attendees.

Steelwrist entered the North American market at Conexpo in 2017 and established its first location in Berlin, Conn. The new headquarters, just five minutes from the original site, is more than five times larger, underscoring Steelwrist's rapid growth and commitment to the region. The new facility in Newington not only symbolizes Steelwrist's success but also its future potential. With increased capacity and improved infrastruc-

ture, Steelwrist is well-positioned to continue leading innovation in the tiltrotator market and supporting the needs of its North American dealers and customers. As excavator contractors seek to increase the efficiency and versatility of their investments, the penetration of tiltrotators is growing rapidly in the region. In recent years, Steelwrist has experienced strong growth, with tiltrotator sales increasing at a high speed.

www.steelwrist.com



Talbert Manufacturing Announces 2023 Dealer Award Winners

Talbert Manufacturing has named Hale Trailer Brake & Wheel of Voorhees, N.J., as its top dealer for 2023. Hale has remained Talbert's top dealer for 16 consecutive years, and was the dealer with the most parts sales in 2023.

"Hale continues to exceed our expectations," says Troy Geisler, Talbert Manufacturing's vice president of sales and marketing. "We are grateful for the Hale team and their continued partnership and commitment."

Hale Trailer Brake & Wheel is a full-service dealership with 15 locations ranging from Maine to Florida as well as Arkansas and Iowa. They provide customers with various new and used trailers and related equipment. In addition, Hale offers customers full service and repair, a complete stock of parts and accessories and trailer rental services.

Here are Talbert's other top dealers for 2023, listed in alphabetical order:

Blackburn Truck Equipment of Lilburn, Ga., celebrates 25 years since the start of their company and service to the towing and recovery industry. The company specializes in repairs, service and installation of towing and recovery equipment, with installations of carriers and small wreckers performed on-site.

Columbus Equipment Company of Columbus, Ohio is a leading heavy equipment distributor that serves the construction, mining, aggregate, lifting, paving, forestry, biomass, waste recycling, compost and landscaping industries from locations across the state.

Freightliner of Grand Rapids of Kalamazoo and Grand Rapids, Mich., is no stranger to Talbert's top dealer list. Both locations offer trailers for the construction, material hauling and agricultural sectors. Since 1978, the company

has provided customers with one of the most expansive and diverse used truck inventories in the U.S.

Leslie Equipment Company, a consistent top Talbert dealer, supplies equipment for forestry, mining, oil and gas pipeline applications from eight locations in Kentucky, Ohio, and West Virginia. Having provided this service for more than 45 years, the company continues to be recognized as an innovative sales and product support leader.

With multiple locations throughout Vermont, New Hampshire and New York, **Lucky's Trailer Sales** features a variety of Talbert trailer options, a large, well-stocked parts department and a full-service repair facility.

Lynch Chicago of Alsip, Ill., is a loyal Talbert dealer, offering a wide range of both new and used tow trucks, wreckers, rollbacks, carriers and heavy-duty tow truck units and equipment for sale. Lynch's vast equipment offering provides options suited for any size fleet.

Remorques Lewis of La Présentation, Quebec, provides customers with top-notch service in selling or renting specialized heavy-haul trailers and premium semitrailers. For more than 20 years, the company has delivered innovative solutions to meet the unique needs of its customers.

Royal Truck & Utility Trailer carries a wide selection of new and used trailers; offers wheel reconditioning, service and fabrication; and boasts one of the largest parts departments in the industry. The company has 7seven locations covering northern and eastern Michigan.

West Side Tractor of Lisle, Ill., specializes in full-service construction and forestry equipment. They provide standard and custom heavy-haul trailers. The company operates in 11 locations across northern Illinois, Southern Michigan, and Indiana.

www.talbertmfg.com



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DYNASET



STIHL THE ONE!

PDA visits US home of the one of the world's top handheld power equipment producers.

After nearly a century of advancing chainsaw technology, it's little wonder that the name Stihl has become synonymous with quality outdoor cutting equipment. But the German-based company's reputation extends well beyond applications involving wood. According to product manager John Allen, Stihl's professional concrete cut-off machines have garnered a comparably high standing in the world's construction markets as well.

"We're the leader on the gas-powered side, and have been for many years," Allen says, citing the wide popularity of Stihl's 14-in (355mm) TS 420 and 12-in (305mm) TS 410, as well as the deep-cutting GS 461 Rock Boss. Now, with the rapid growth in demand for battery-powered equipment, "we want to be the leader on that side as well," Allen adds.

PDA recently had opportunity to visit the Virginia Beach, Va., home of the company's U.S. subsidiary, Stihl, Inc., which celebrates its 50th anniversary this year. What began with a single 20,000-ft² (1,858m²) warehouse in 1974 has grown into a 150-acre (61ha) campus encompassing more than 1.5 million ft² (139,300m²) of manufacturing, distribution, and administrative space, with more than 2,400 employees.

Although Stihl's concrete cut-off saws aren't manufactured in the U.S., a quick tour of one of the facility's production plants offers a glimpse into many of the advanced processes and meticulous quality measures that Allen says goes into all the company's consumer and professional products.

"We've taken the lessons learned from nearly 100 years of leadership in the outdoor power industry, and apply them to designing for the next 100

years," he says, adding that each product's design, operation, and features have emerged from the voice of the customer.

"My job as product manager is to talk to users at shows, on jobsites, and wherever else our products are used," Allen says. "We take what they're saying and pass it on to our designers in Germany for integration into the next generation of products."

A continual push for more power

Several of Stihl, Inc.'s 2024 product introductions are testimony to the company's continual melding of experience and innovation, Allen says.

The new 14-in (355mm) TS 710i gas powered cut-off machine is smaller and lighter than the model TS 700 it replaces, yet provides approximately 5% additional power with the added benefits of electronically controlled fuel-injection, air filtration, and an updated anti-vibration system. The new 16-in (406mm) TS 901 offers an even bigger power boost—24%—over its predecessor, the TS 800. This machine too boasts fuel injection and air filtration improvements, along with a compact powerhead design for optimal maneuverability and handling in tight spaces.

Allen notes that Stihl also provides a full range of blade wheels for its gas-powered cut-off machines, as well as the FW20 welded steel cart for even easier mobility and use.

"We know how 'gently' equipment is treated around the jobsite," Allen says with a laugh, "but this cart is really robust—essentially construction worker-proof."

Stihl's third major project release of the year introduces a successor to the popular 9-in (228.6mm) TSA 230, which, when it debuted in 2015, was the world's first battery-powered cut-off machine. The new TSA 300, due to officially debut this fall, features lightweight maneuverability with a redesigned hub that allows cuts through up to 4 in (101.6mm) of concrete with a 12-in (305mm) wheel.

The TSA 300 is also well-suited for cutting steel



rebar, thanks to a built-in magnetic filter at the air intake captures ferrous material before it reaches the motor, helping extend the life of the machine.

"Outfit the quieter TSA 300 with a low-noise wheel, and you'll have a tool that's great for interior demolition and other noise- and emission-sensitive environments," Allen says. "We think it will be really popular with professional users."

Charging ahead with battery products

While Allen expects no slackening in either the demand for gas-powered cut-off machines or Stihl's efforts to continually improve them, the company understands that all industry eyes are on the market for battery-powered construction tools. A number of factors are contributing to this sector's growth, he says, from emissions and noise concerns to







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advancements in electric engine technology that improve performance and durability. The fact that battery-powered machines also are easier to use and require less maintenance than their petroleum-fueled cousins also is important consideration for contractors managing both operational costs and a less-experienced workforce.

"There are no air filters or spark plugs to change, and no gas-oil mixture to worry about," Allen says. He adds that battery-tool communication and other features Stihl's product-wide AP battery platform ensures maximum performance from the machine.

Yet despite the nearly decade-long success of TSA 230, user misperceptions about battery-powered tools have endured.

"They think it's a wimpy battery that won't provide the power and runtime they need," he says. "That may have been true 20 years ago, but it seems like every year, Stihl gets better at packing more power into the batteries, and getting more power and run time out of them. The charging solutions are improving as well. It's a constant evolution."

For example, Allen estimates that each AP-platform battery will provide the new TSA 300 with about 20 minutes of cumulative runtime, depending, of course, on the type and thickness of material being cut and other factors.

"We typically recommend three batteries and a charger will meet most daily jobsite needs," he adds. "And it's only going to improve."

Stihl already manufactures more than 80 battery-powered tools for consumers and professionals, and plans to add another 30 products to that portfolio over the next two years. To support the goal of increasing its share of sales of battery-powered products by 80 percent by 2035, Stihl, Inc., is investing more than \$60 million towards domestic battery manufacturing, including establishing assembly operations for several types of battery packs at the Virginia Beach complex. Rather than outsourcing battery assembly overseas as other manufacturers may do, Allen explains that co-locating that work and tool manufacturing in the U.S., "helps us be vertically integrated and control the quality throughout the manufacturing process."

Comprehensive customer care

Another of Stihl, Inc.'s key differentiators, Allen says, is its nationwide network of service dealers who can apply their knowledge to help prospective buyers find the right machine for their applications. And because Stihl products are sold only through servicing dealers, troubleshooting and repair work is handled locally as well.

"You don't have to ship the machine off someplace and wait who knows how long for it to be fixed," Allen says. "We how these machines are how contractors make money, so we make sure they have easy access to that support. Dealers are the cornerstone to our success."

Stihl, Inc., ensures its dealer sales and technician teams are always fully prepared to serve any and all customer needs through a tiered training



program. Technicians can also apply for Gold-level training, which includes three days of classes and hands-on lab work at the Virginia Beach facility. An even more in-depth design and engineering program is available for technicians at Stihl-exclusive dealers.

Augmenting Stihl, Inc.'s dealers are more than 200 territory managers and technical sales specialists who bring their product expertise and local knowledge to assist small and large customers alike with issues such as matching the right machine with nuances of local aggregates and concrete types.

Stihl, Inc., is also doing its part to attract new technicians to the industry, offering access to training materials to high school and junior colleges for incorporate into their vocational education programs. "It's a great head-start for anyone interested in going to work for a Stihl dealer," Allen says.

Powered up for the future

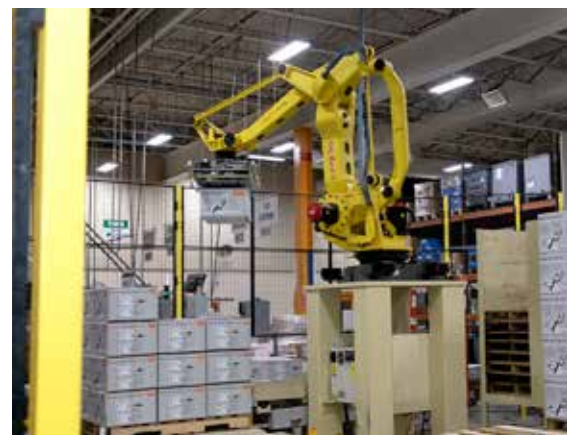
Allen says there's a lot to look forward for both Stihl, Inc., and its customers.

"Our commitment is to keep coming out with new and improved gas-powered tools like the TS 710i and TSA 910i, and also respond to the changing market with products like the TSA 300," he says. "And with users adopting battery power at an exponential rate, Stihl is exploring other avenues for applying that technology."

Though some may fault Stihl for not being first to market with certain product types, Allen counters that the company is very deliberate about its engineering and testing process, with products going through multiple iterations if needed before being deemed ready for release.

"When we launch a product to market, we want to make sure it's right," he says. "We never want to find ourselves saying, 'oops, we missed something.'"

Allen hints that construction contractors will soon see more fruits of that purposeful development effort. Though the understandable confidentiality of the product development process limits him from



saying anything more than characterizing the current pipeline as "impressive," he freely expresses confidence that Stihl's impending century celebration will be more than just a milestone of longevity.

"Stihl has a lot of talented engineers in research and development, a great field staff, and dealers who believe in the brand," he says. "It's a rock-solid brand."

www.stihl.com



Avant Power Battery Factory Marks Production Milestone

Avant Power, the battery developer and manufacturer subsidiary of loader manufacturer Avant Tecno Oy, has doubled its original planned production goal for its first six months, marking completion of its 500th high-power battery. The pace of production will accelerate even more, as a second production line is currently being installed. Located next to Avant Tecno's loader factory, Avant Power has operated at record speed since the very beginning of the subsidiary. The battery manufacturer has developed a completely new product and production simultaneously in only about two years.



"Seamless cooperation with professional, flexible, and responsive subcontractors has made the whole thing possible," says Avant Power COO Mikko Piepponen. "We have developed manufacturing methods together with our subcontractors, and they have thrown themselves fully into it, even though they

did not know in advance how everything would work out. That spirit of doing things is exactly what we had been looking for. In the end, we managed to manufacture double the number of batteries compared to the original plan,"

The battery factory's cooperation with the nearby Avant loader factory has

been important as well. "The spirit of Avant is that everyone pulls together," Piepponen says. "Loader design has played a major role, as has the prototype workshop, marketing and sales, and the entire factory. We have all done this together."

www.avanttecno.com

Pettibone Cary-Lift 204i With Scrap Baler

The Pettibone Cary-Lift 204i rough terrain forklift features a unique overhead lift arm design, giving the operator full front visibility when lifting or transporting loads—a sharp contrast to the lift arms on wheel loaders that are located direct-

ly in front of the vehicle. The machine can be equipped with a scrap baler attachment for handling debris and materials in demolition

and recycling applications. In addition, Cary-Lift forks are capable of tilting down 90 degrees for specialized lifting tasks.

The 204i is powered by a 200-horsepower Cummins QSB6.7 Tier 4 diesel engine with DOC and SCR aftertreatment. The machine provides a maximum load capacity of 20,000 lb (9,000 kg) and max lift height of 16 ft (4.9 m). Offering 4-wheel drive with 2-wheel, 4-wheel and crab hydraulic power

steering modes – and with the wheelbase limited to just 12 feet – the 204i can achieve a turning radius of 21-1/2 ft (6.5 m)

Unlike forward-reaching articulated loaders, the Cary-Lift's heavy-duty, solid steel frame design allows it to take full loads into sharp turns without sacrificing load capacity or stability. Hydraulic frame sway control and side shift capabilities further stabilize loads by leveling the lifting frame when driving on uneven ground. The sway cylinder moves 7 degrees both right and left of center. Dual joysticks provide intuitive controls to efficiently shift gears and control the hydraulics.

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Leveraging Construction Equipment Services to Gain a Competitive Advantage



Rising costs and supply chain setbacks paired with an ongoing worker shortage have put new stressors on the construction industry. And, with recent declines to project backlog, contractors are forced to be more competitive to keep their business going.

The construction industry's landscape is approaching a point where digitization is no longer a "nice-to-have" asset, but a necessity to increase profits and mitigate setbacks. In 2022, rising input prices for material and labor cost sub-contractors \$97 billion in unplanned expenses, further driving the demand for updated business practices that can help streamline operations, maximize resource utilization, and ultimately, bolster business scalability.

As project managers and operations personnel navigate these challenges, innovative solutions are emerging to address the industry's pressing needs. One such solution gaining traction is Equipment-as-a-Service (EaaS), a model that offers a paradigm shift from traditional equipment ownership towards a more flexible and cost-effective approach. Under this model, contractors no longer bear the full burden of purchasing, maintaining, and disposing of expensive machinery. Instead, they can access the construction equipment they need on-demand, paying for usage rather than ownership.

A path toward future-proofing

EaaS adds a new layer of predictability to project expenses by lowering costs related to tool repairs and replacements, and reducing the upfront investment for tool crib updates. Transitioning to an EaaS business model not only aligns with the industry's evolving demands but also gives construction companies of all sizes increased flexibility so they can adapt to fluctuating project demands, helping to ensure that they can remain agile and competitive in a dynamic marketplace.

Instead of budgeting for massive upfront investments on new construction equipment or being slowed down by main-

tenance needs, users can pay a flat, monthly fee to access the tools they need, when they need them, without having to plan for repair costs or downtime. And, with digitization integrated throughout their organization, jobsite managers can harness tool data, usage analytics and real-time insights from anywhere. This newly accessible information not only lays the foundation for more strategic decision-making, but also helps jobsites increase output from the team they already have, without compromising employee safety or wellbeing. By reallocating resources from capital-intensive equipment purchases to strategic investments in construction technology and workforce development, companies can help reduce administrative workload, optimize workflows and better allocate resources while integrating innovative safety measures that serve their organization from the bottom up.

Using EaaS to get the best tools for the job

Tool Fleet Management, Hilti's EaaS offering, allows customers to choose from a wide selection of tools, including the latest innovations—on a long-term or short-term agreement based on the needs of current projects. Its simplified scalability enables organizations to more quickly adjust operations in response to market fluctuations and project requirements, without the financial burden of owning underutilized assets.

By acquiring a Hilti DST 10-CA Wall Saw through the Tool Fleet Management program, for example, a contractor can reap the benefits of a 5-figure upfront investment for a significantly lower monthly fee. Equipping trade-workers with an upgraded tool crib also gives them access to safety features like Hilti's Dust Removal System (DRS) and productivity gains through technology such as Hilti Cut Assist, which outfits wall saws like the DST 10-CA for fully automated cutting once the cutting surface is detected.

For coring applications, Hilti's Bluetooth-enabled DD-WMS 100 Water Management System offers a virtually maintenance-free means to supply water and collect and filter slurr. It eliminates the need to pump pressurized water or filter slurry during coring by recycling water up to seven times, freeing up costly labor hours that were previously spent on set-up, water refilling and other tedious operational requirements.

And, with digitization now a key driver for growth and profitability, jobsites can utilize Hilti's ON!Track tool tracking and equipment management platform for added efficiency and costs savings. Through the intuitive ON!Track app, project managers can get optimal transparency into their tool crib to see which tools are being used, where they are being used, and when. When paired with Tool Fleet Management, these services help reduce product consumption, eliminate wasteful buying and safeguard organizations from tool theft while absorbing the costs of equipment repair and replacement.

The benefits of digitization extend beyond the competitive advantages. By leveraging support services such as Hilti's Tool Fleet Management and ON!Track, construction firms can optimize equipment utilization and overall operational efficiency to help decrease time spent on administrative requirements, simplify their tool crib management and scale based on the changing needs of their jobsites.

www.hilti.com



Next-Gen Kemroc Drum Cutters Now in the US



such as hydraulic hammers or hoe rams. The chain cutters, with their robust design, provide unparalleled cutting capabilities, making them ideal for a variety of applications from trenching to tunneling.

Built with durability and longevity in mind, Kemroc tools minimize downtime, allowing contractors to focus on their projects without the constant worry of equipment failure. The advanced technology and high-quality materials used in Kemroc products ensure that they remain reliable and efficient, even in the harshest conditions.

Supporting Sustainable Practices

Kemroc is also committed to sustainability by reducing the need for frequent replacements and minimizing downtime. Their efficient performance also means 40% less fuel consumption, lower emissions, and the ability to use up to 75% of excavated material as backfill material in trenching. There's also less wear and tear on excavators.

Kemroc's cutting attachments are poised to become an indispensable part of the Construction attachments for contractors across the U.S. Their introduction marks a significant step forward in construction and excavation technology, offering unmatched innovation, productivity, reliability, and sustainability. As Kemroc continues to expand its presence in the US, contractors can look forward to achieving new levels of efficiency and success in their projects and jobsites.

www.kemroc.com



The construction and excavation industry in the U.S. is set to experience a revolutionary transformation with the introduction of Kemroc's cutting-edge solutions. Converting the excavator into a rock trencher with Kemroc drum cutters and chain cutters. Renowned globally for their high productivity and low maintenance, Kemroc attachments promise to elevate the standards of efficiency and performance with a product range that includes cutting wheels, a diamond rock cutting machine, rock saw, and trenching attachments.

In response to the growing demand for robust, innovative, and efficient construction equipment in the USA, Kemroc has made its rock cutting machine instantly available to American contractors via a nationwide network of dealers. This supports immediate access to Kemroc's innovative solutions means that contractors no longer have to wait for international shipments or deal with prolonged downtime due to equipment shortages.

KRC bullhead cutters feature two angled drums that provide full face coverage, eliminating the need for side-to-side movement during operation. This design creates a

trench matching the cutter's width. The KRC range, with power between 80 and 295 hp (60 and 220 kW), is designed for excavators weighing from 26,000 to 154,000 lb (11,800 to 69,850 kg). Bullhead cutters are low-maintenance, needing only pick replacements and gear oil changes every 1,000 hours, making them ideal for rental companies.

The KRC range boasts an exceptional narrow width due to special design gearbox, and powerful hydraulics from its double motor design, making it ideal for soil stabilization, trenching, and pipeline work. The machine also is operational to nearly 100 ft (30 m) underwater without the need for modifications

High productivity, low maintenance

Kemroc cutting attachments for excavators are engineered to deliver exceptional performance in the most challenging environments. The drum cutters, known for their precision and power, ensure efficient rock cutting and material removal, significantly reducing project timelines with up to four times the productivity of traditional trenching methods

Man in Motion

Longtime demolition industry dynamo Bruce Bacon has made a career out of connecting contractors with innovative, quality equipment. And he's not about to slow down.

Speed, champion motorsports driver Mario Andretti once observed, is not something one can just dabble in. "You have to live it," Andretti said. "You have to live it all the time."

Of course, that philosophy entails constantly living with speed's many, sometimes ruinous hazards as well. But as someone who is as comfortable taking a gamble on a new business venture as he is taking tight corners on his Harley Davidson motorcycle, demolition industry veteran Bruce Bacon believes the trade-off is more than worth it.

"What a great life it can be," he says. "If you are



willing to take the risks, appreciate the successes, and learn from the heartbreaks, why not bet on the longshot?"

For most of the past 35 years, many of Bacon's longshots have paid off in the form of attachment manufacturing ventures that have influenced both how construction and demolition contractors do their work, and the way that equipment is conceived and built. From his start with the pioneering attachment innovators at LaBounty to his current role growing SAS Forks' new DRKhorse division, Bacon relishes the experience of building up ideas from scratch, even when success is hardly guaranteed.

"We all love to root for the up-and-comer," Bacon says, citing how the DRKhorse name embodies "that uniquely North American idea of cheering and betting on the come-from-behind long shot. That's the American dream."

Starting up

Bacon's fascination with speed—and, indeed, most anything with engines and wheels—began during his childhood in Two Harbors, Minn., located along the north shore of Lake Superior. After school and Little League practice, Bacon's afternoons were often spent hanging around his father's Chrysler-Plymouth-Dodge automobile dealership.

"This was during the 'muscle car' era, and racing and fast cars were part of the dealership culture," Bacon recalls, adding that the presence of bulldozers, graders, and dump trucks on the lot complemented the work ethic parents instilled in their children. "Getting your hands dirty was part of the program," he says.

After attending the University of Minnesota, Bacon decided to try his hand at the car business and started a Cadillac-Buick-Pontiac dealership—an experience he characterizes as "humbling" and, fortunately, soon taken out of his hands.

"I learned that not every venture or dream in life ends up the way you planned," he says, "but also that there is always something to be gained—even in defeat."

A far more positive and productive learning experience would begin in 1990, when Bacon landed a job with fellow Two Harbors natives, Roy and Ken LaBounty, who had turned an idea for pioneering contractor grapple into a national reputation for innovative equipment, including mobile shears, universal processors, and concrete pulverizers.

"I had known them basically my whole life, and remember when they started out in a very modest



The DRKhorse and SASForks team. From the left Wes Jones, Louis Broelhe

facility with just a few employees," Bacon says. "When I interviewed, they were in their third or fourth expansion." Harkening back to his wide-eyed boyhood at his father's car dealership, Bacon spent as much time as possible on the factory floor with the LaBounty family and their engineers, absorbing all he could about the design and manufacturing process.

Bacon calls Roy LaBounty "a visionary and a risk-taker," but also someone fully committed to standing behind products, regardless of whether they succeeded or failed, and always looking after the customer.

"When I look back at the projects and products he took on, I am still amazed at what they did," Bacon says. "Roy and Ken never let setbacks bother them.



The longtime demolition industry dynamo, Bruce Bacon.



Ken LaBounty (Rotar International), Bruce Bacon, Matt Wroblewski, Scot Stein, Rob Hennings, Salvatore Lacorte, Andy Watzil, Wendel Moss, Drew Weisspeters and Mark Kirsten.

They continued to innovate and dominate the industry. No one could touch them."

Fallout from a change in LaBounty's ownership eventually led Bacon and co-workers Curt Frahm and Kevin Bakke to leave the company in 1997 and launch Genesis Attachments. Ken LaBounty, Roy's son was a founding partner as well.

To call their first few years "challenging" would be an understatement. Despite being undercapitalized, Bacon says, "we jumped in the deep end of the pool, built a new facility, bought used equipment, hired all the staff—then fought like dogs for four or five years to build this greenfield start-up against the dominant force in the industry."

Luck proved to be on their side as well, as Ge-

nesis navigated the cycle of successes and failure to eventually patent breakthroughs such as the bolt-in tip for mobile shears, and many other innovations that help spur an industry-wide push to improve equipment maintenance, productivity, and power. Genesis would also benefit from the insights of Bacon's mentor Roy LaBounty.

"Our competition laughed at us at the start," Bacon recalls, "but they weren't laughing a few years later, we were taking in \$50 million in annual revenue."

The best-laid plans...

There was little to laugh about at the outset of Bacon's next business venture—Exodus Global, which he founded in an attempt to design and build a material

handler that would compete with well-established German manufacturers. "Why I thought this was possible is beyond me," Bacon admits, adding the 2008-09 economic crisis was hardly an opportune time for a new company to find its footing. "But then, I've always believed 'anything' is possible with enough will, vision, and execution."

"Anything" did happen, as a relentless 18-month effort ultimately succeeded in fulfilling Bacon's vision... and nearly ruined Exodus in the process. While an agreement with a leading equipment company offered both exposure and much-needed cash, the alliance was not meeting expectations. I was deeply concerned about long term commitment to the alliance.

Faced with the grim prospect of having nearly a





hundred Exodus Global employees lose their jobs, Bacon says, "I knew we had to pivot."

Bacon's premonition of ultimately came true, but by then, Exodus Global had become firmly established in the attachment business, with highly respected brands such as ShearCore/Fortress, BladeCore, Oil Quick USA, and Connect Work Tools. Bacon praises current Exodus Global CEO Kevin Boreen, owner Murray Johnson, and their team for having sustain the company's growth and development into an international player. Though proud to have played a role in the stories of both Genesis and Exodus Global, what pleases Bacon most is the companies' combined economic impact on his home area, employing nearly 300 people in the Superior, Wisc., and Duluth, Minn., area.

"That these families are able to enjoy a great living and benefits outshines any 'bright ideas' we might have had," he says.

Back in the race

The past few years of Bruce Bacon's life validate Isaac Newton's Law of Inertia, that bodies in motion tend to stay in motion. His search for a new challenge after leaving Exodus Global in 2021 eventually led to a chance meeting with longtime friend Bill Van Sant, founder of Paladin Attachments and, now, executive chair of material handling specialist Bilrite Holdings.

Van Sant presented Bacon with an intriguing opportunity—President of Tenamec Goups's Luxemburg, Wisc., subsidiary SAS Forks, maker of auto dismantlers, processors, and material handling attachments.

"The parameters of the job were simple," Bacon says, "Grow!"

Bacon knew exactly where and how to begin when he took the job last year. The plan for DRKhorse would be to put together the world's most respected demolition, scrap processing and construction equipment product lines, with service, support, and sales based at the SAS factory and offices.

Partnering only with highly respected companies in countries with fair trade practices with the U.S., Bacon says DRKhorse seeks to offer "a hand-selected group of products that are at the forefront of quality and design, offering dealers and distributors and users, a full portfolio under one roof and simplify support, communication, and frankly, in some cases better pricing on word-class tools."

DRKhorse's prime partners currently include attachment specialists Rotar of Holland and MBI of Italy, and South Korean hammer manufacturers D&A and JAB. Other products will be added in the coming years.

Sensing that the time is right "to build a powerhouse of products that no one-single company could develop and manufacture," Bacon has set an ambitious target of tripling SAS Group and DRKhorse revenue in five years—a lofty goal to be sure, but one he feels is attainable with a team talented people and partners pooling their skills, resources, and commitment.

"I told our group, when the rest of the world sees what we are doing and who is doing it, they will come knocking, and that has happened," he says, heartened by the initial response to the DRKhorse concept.

"At the customer and dealer levels, the doors have been opened and continue to open," he says. "We missed a lot of the early-year buying season but we are building the foundation for growth and success."

At the same time, even an inveterate risk-taker like Bacon knows well that DRKhorse's growth should not be pursued simply for growth's sake.

"We have opportunities to bring in a wide array of superb products from many family-owned, well-established, and very respected companies," he says. "We must not run too fast as the foundational work of support, parts inventory, training, and distributor development are paramount to establishing the foundation that is required to succeed. We've already assembled a great, experienced sales team, for example, but there's there always so much more to learn."

If there's a guiding principle behind the DRKhorse development strategy, Bacon adds, it's a lesson learned long ago from Roy LaBounty: "the customer comes first."

The road ahead

Bacon calls it "a gross understatement" to say the past year has been a non-stop effort to launch DRKhorse. Indeed, the dearth of that precious commodity called time is part of the reason why, after a career of taking risks, he considers this the biggest one of all.

"I'm not getting any younger and, God willin,g I have a long time to go," he explains. "But as timelines shrink, risk increases. We never have any guarantee of anything in life and all we can do is move forward with every bit of will and determination we have for our dreams."

Perhaps more important than his business accomplishments are the non-work dreams Bacon has realized along the way. He and his "pretty cool and long-suffering" wife, Lindsey, have a blended family of three children and ten grandchildren. He still enjoys fast cars, relishes time at his peaceful home and land out in the woods, cheers for the Minnesota Vikings during the NFL season, and rarely passes up a chance to hop on a Harley Davidson. At the time of this interview, he and his three brothers were planning a motorcycle tour



of northern California that would include the Pacific Coast Highway, Napa Valley, the redwood forests, and Lake Tahoe.

"I'd just say that I am grateful for this life," Bacon says, "even if it means having fought and dreamed and laughed and cried and spent a lot of sleepless nights fighting to make these companies succeed. But does that make me different from anyone else who's been responsible for a business or a family? Not at all."

Nor should anyone expect Bacon to live his life any differently, even at a time when so many of his contemporaries are slowing down.

"I can't lay on the beach for more than a day," he says. "So, I guess I'll keep doing what I love—hanging around this industry and trying new adventures."

www.drkhorsetools.com
www.sasforks.com

Bacon's Basics

PDa asked Bruce to share some of the rules that have guided him in business and life.

- Hire the very best people and let them spread their wings. Form them into a team that all pulls on the rope.
- Hire for intellect, attitude and ethics. You cannot teach these. Anything else can be learned.
- Do what you said you would do.
- Customer first. Always. We work for them. They owe us nothing.
- Strive to earn trust. That's the greatest gift anyone can give you.
- Be grateful, kind, and considerate.
- Win. Winning is fun




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Jetstream Announces New Waterblasting Tools and Pumps

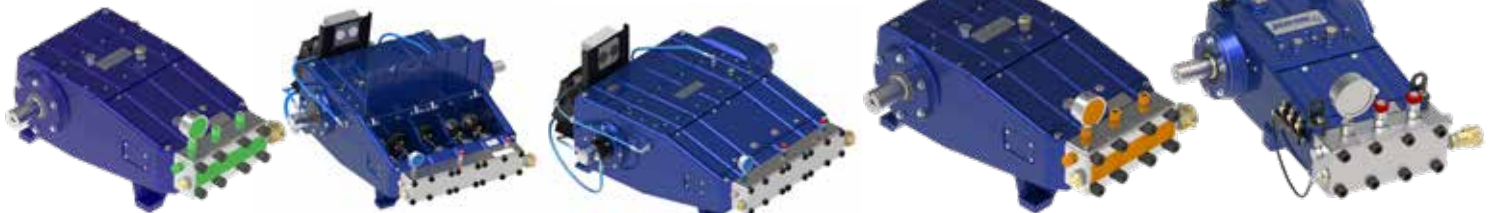
Industrial waterblasting specialist Jetstream of Houston recently introduced the next generation of the MagJet® X40 tool, featuring high-speed rotation for cleaning industrial surfaces. The MagJet® X40 Gen 2 rotates in a 360-degree pattern at 1,500-3,000 rpm, doubling the typical operating speed of the previous model without diminishing the lifespan of the tool. Rated up to 43,500 psi (3,000 bar), the tool can be paired with Jetstream's standard shotgun or QuadraBlast air gun for high-speed cleaning and surface preparation applications.

The MagJet X40 Gen 2 uses up to four straight-pattern nozzles with a maximum flow rate of 7.0 gpm (26.5 lpm), and can be used with Jetstream's Sapphire UHPX/UHPXi Series or Synthetic Diamond UHPXD Series nozzles. New exterior magnets and a copper ring on the interior combine to dissipate heat generated by the rotation and allows the tool to revolve at higher speeds without losing the magnetic hold. Jetstream also has introduced a new 40,000-psi model of its 4-in (101.6mm) J-Force™ pipe cleaning tool. Designed for durability, this self-powered rotating nozzle uses seven jets to clean and clear scale, hard carbon and polymer, sludge or other blockages in industrial pipes with 90-degree bends.

The newest model can operate from 23,000-40,000



The 5200Q Series provides unprecedented power, efficiency and versatility along with maximum uptime to large-scale industrial cleaning operations.



Now compatible with power input ranging from 80 - 200 horsepower (60 - 149 kW), Jetstream's 3000 Series UNx™ bareshaft pump is well-suited for tasks that demand advanced capabilities without sacrificing space.

One of the key advantages of Jetstream's 5200Q Bareshaft pump is the quintuplex design for reduced pulsation and vibration.

Designed to pair with engines up to 700 horsepower (522 kW), the 5200Q is the most advanced and efficient waterblast pump of its size in the industry.

The 3000 Series UNx™ bareshaft pump is able to achieve a flow rate of 7.6 gpm (28.8 lpm) at 40,000 psi (2,758 bar).

Developed as a compact pump option for industrial applications, Jetstream's 2000 Series UNx Bareshaft pump offers minimal maintenance and maximum efficiency.

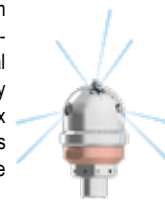
psi (1,500-3,000 bar), which delivers a powerful punch in removing buildup. Additionally, Jetstream offers four size options to clean tubes ranging from 2 to 6 in (5.08 to 15.24 cm) at up to 22,000 psi (1,517 bar).

Pumps with power

Jetstream also recently made a number of announcements regarding its seven-series UNx™ Bareshaft pump line.

Recently released globally, the new 2000 Series was developed as a compact option for industrial applications and offers minimal maintenance and maximum efficiency for jobs ranging from rig washing, petrochemical cleaning, hydrostatic testing, chemical injection, food processing and more. The flexibility in pressures achievable with the 2000 Series UNx technology brings a versatility to the market that was previously missing in other pumps of comparable size. Compatible with up to 75-hp (55kW) engines, the pump boasts flow capabilities of 6,000 to 15,000 psi (414 to 1,034 bar) and up to 20 gpm (75 lpm). Its triplex plunger design consists of three crankshaft-propelled plungers, offering powerful and smooth operation on the most demanding duty cycles.

diverse range of industrial cleaning and surface preparation jobs, and an ideal flow rate for single-operator setups. Jetstream offers the 3000 Series pump as a standalone product, paired with an electric motor mounted on a skid or integrated into its X-Series waterblasting unit lineup for a complete system including a diesel engine.



Jetstream's J-Force features front, side, and rear jets that provide thrust to navigate the tool through the pipes as well as clean and clear blockages.

Jetstream's 3000 Series pump can now handle power inputs of up to 200 hp (149 kW). To correspond with the boost in horsepower, Jetstream also developed larger plunger sizes for the triplex model, which is now able to achieve a flow rate of 7.6 gpm (28.8 lpm) at 40,000 psi (2,758 bar). This offers contractors greater power for a more

For big water applications, Jetstream's 5200Q Series is designed to pair with engines up to 700 hp (522 kW), providing a maximum flow capability of 25.6 gpm (97 lpm) at 40,000 psi (2,758 bar). One of the key advantages of the 5200Q pump is the quintuplex design for reduced pulsation and vibration. With five plungers, pressure spikes are lower, allowing for a more consistent, smoother pressure profile compared to a standard three plunger design. The 5200Q comes with interchangeable

UNx fluid end technology, which allows converting from 8,000 to 40,000 psi (552 to 2,758 bar) in minutes. This provides flexibility to complete all functions on a jobsite and run a full variety of tools with a single unit.



Compatible with up to 75-horsepower engines, Jetstream's new 2000 Series UNx Bareshaft pump boasts flow capabilities of 6,000 to 15,000 psi and up to 20 gpm.

Cuts Inc Attachment Perfect for Runway Repairs

The SS4200HF diamond-blade saw attachment from Cuts Inc. of Knoxville, Tenn., is compatible with many brands of compact track loaders. Weighing 980 lb (444.5kg), the attachment's 42-in (1,067mm) diamond blade cuts up to 18 in (457mm) deep and .25-in (6.35mm) wide. The diamond-tipped blade of the skid steer attachment requires an external water source to keep the blade from becoming overheated during operation.

The attachment itself is 66 in (1,676mm) long, 52 in (1,321mm) high, and 50.25 in (1,276mm) wide, with a flow capacity of 20-30 gpm (70.7-113.5 lpm). Four wheels located on the bottom of the unit, which provide extra stability, can be lifted and not used if necessary. The top half of the blade housing can be lifted for storage or shipping.

The skid steer saw attachment demonstrated its capabilities during the U.S. Army Corps of Engineers' Rapid Airfield Damage Recovery (RADR) Technology Integration Experiment. Conducted in August 2017, the experiment compared lighter and leaner equipment, materials and methods for small crater repairs on an airport runway to those used in the traditional crater repair process. While traditional crater repair equipment and materials are highly capable, they are large, expensive, and logistically challenging.

According to Matt Jay Hephner, President and Senior Estimator at Cuts Inc., skid steer use was at the center of this testing. The SS3600 and SS4200 concrete



saw attachments from Cuts Inc. were chosen to compete against conventional concrete cutting tools. Testing criteria was for overall weight of the equipment, compactness for storage, daily maintenance, ease of use, and, most importantly, speed.

The SS3600 saw attachment yielded cut speeds of 1.41-1.64 ft/min (43-50 cm/min), cutting 15-18 in (382-457 mm) deep through 8,500 psi concrete.

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Making Concrete More Sustainable Through Restoration

by Keith Armishaw, Business Development Manager, Aquajet

We rely on concrete for many aspects of life — the roads we drive on, the dams that help produce power or control flooding, and structures that form our cities, to name a few. This durable, versatile, cost-effective material has had incredible importance to civilizations for centuries. Yet we're aware production of the material uses a lot of energy and affects the environment. To date, however, there is not a viable alternative. But one way to have our concrete and to be conscious of sustainability, too, is to restore existing concrete structures. Hydrodemolition offers the most ideal method of repair, extending and optimizing the life of the concrete structures while minimizing waste. Hydrodemolition uses high-pressure water jets to precisely remove concrete. The impact-free process eliminates microfractures that jeopardize the integrity of a structure while also cleaning and descaling rebar without damaging it. In addition to precise removal, hydrodemolition leaves behind

a rough, craggy surface that provides an ideal texture for bonding new material. Independent pull-off tests show that the bonding strength achieved through hydrodemolition is much higher than that of jackhammers or other mechanical methods. According to the Swedish Cement and Concrete Research Institute, using hydrodemolition for concrete repair results in a life expectancy of 21 to 35 years—three times that of mechanical chiseling.

Exciting new technology in concrete recycling is even making it possible to reuse the slurry produced from hydrodemolition. A specialty chemical company has developed a new process that incorporates old concrete into new concrete mixes, providing similar performance to traditional material. Minimal removal coupled with the ability to effectively recycle what is removed is a big step toward sustainability.

The water used in the hydrodemolition process can



Concrete isn't the only thing that can be recycled. Aquajet's EcoClear neutralizes the pH and reduces suspended solids in blast water, so that it can be reused for the hydrodemolition process.



Hydrodemolition robots can be programmed to remove only unsound concrete, which minimizes waste.

be captured and treated in a fully automated, high-capacity system that neutralizes the pH and reduces suspended solids from 15,000 mg/liter to as little as 20 mg/L. Some of the blast water is lost through evaporation, but 80% or more can be captured and treated. Clean, treated water can then be discharged into the environment or reused for the hydrodemolition process. Not only does this reduce water consumption, it also reduces the need to haul water in and out of jobsites.

Concrete plays a major role in our daily lives and has for centuries. That isn't likely to change any time soon. But those of us involved in the construction industry are called upon to reduce our ecological footprint, and that is not an easy task. The idea of reusing and recycling, however, can be applied to concrete structures. And as a Hydrodemolition equipment manufacturer, we are committed to engineering the most innovative, environmentally friendly products that give concrete repairs the longest possible life.

www.aquajet.se

Hydrodemolition offers an ideal method of repair, extending and optimizing the life of the concrete while minimizing waste.



HAMMERGLASS PRESENTS

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In the demanding field of demolition, machine operators face numerous risks that can lead to serious accidents, such as crashes, explosions, ricochets, and flying debris. Ensuring the safety of these operators is paramount. This is where Hammerglass OPG-tested OPERATOR GUARD comes into play, offering comprehensive safety solutions tailored to real-world situations.

Our top-tier front solution comprises a robust safety window crafted from Hammerglass, accompanied by an easily mountable steel frame that integrates seamlessly with the machine's existing structure.

The absence of a safety grille provides operators with an unobstructed view, enhancing their operational efficiency while maintaining high safety standards.

This solution offers substantial benefits to machine owners by eliminating the frequent need to replace damaged panes, significantly reducing maintenance costs.



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The cabin is from the actual accident Roberto Agostoni shared in his EDA convention speech. The cabin is now preserved at the Hammerglass Experience Center in Sweden.

Hammerglass: The Cabin Glass That Saves Lives



At the recent European Demolition Association (EDA) convention in Belgrade, Serbia, one of the speakers was Roberto Agostini, southern Europe sales manager for Swedish construction vehicle glass manufacturer, Hammerglass. This article contains a summary of Agostini's speech.

Absurd to use ordinary glass

In such a tough environment as demolition, you wouldn't consider wearing a party hat for protection; the absurdity is clear. Equally absurd, though far more common, is the use of ordinary glass in machinery that operates in these risky conditions. Despite widespread knowledge that glass shatters upon impact, most of the machinery is still equipped with standard glass straight from the factory. Even replacement safety windows often fail to meet the specific needs of their operational environment, chosen without the proper consideration of the risks they're meant to defend against. As a result, these windows will most likely break, leading not only to personal injuries and insurance claims but also costly downtime.

In these challenging times, downtime due to broken glass is something the industry should do its utmost to minimize. To be honest, it's like throwing money—and a lot of it—in the trash. One broken glass window can amount to surprisingly high costs. It's not just the price of a new window; it includes installation, service fees, production losses, rental costs for replacement machinery, and fines for delays. And most of all, ordinary glass doesn't protect the operator at all.

This process doesn't feel sustainable. So why, in a field so heavily regulated, where every precaution is taken to ensure the safety and efficiency of operations, do we repeatedly use glass in a way that contradicts what we know about its properties?

The story of Sven

(Agostini shared the story of Sven, a safety manager, who had to choose a replacement glass for one of his construction company's vehicles. His choice to use the Hammerglass hard-coated polycarbonate alternative to "normal" glass proved to be a wise decision, preventing a serious accident.)

When a 10-ton stone came towards the machine by an unforeseen slide and hit the new window, it merely pushed it inward without breaking it. Had a weaker solution been used, such as glass, the fate of Jörgen (the operator) could have been drastically different. Instead, he walked away without a scratch. A year later, he retired after more than 45 years as a machine operator.

This story is a testament to a life preserved by thoughtful material choice. In heavy machinery used in demolition, construction, or mining, there are several important tests a window needs to pass to fully guard the operator. Hammerglass meets a lot of questions regarding this, since the rules and recommendations are not published as standards, and it isn't always easy to know what to choose. When Hammerglass educates customers on operator safety, we always focus on these tests, since combined they will be the safest choice."

The OPG/Fops level II test

The Level II test for Operator Protective Guards (OPGs)/Falling-Object Protective Structures (FOPS) is designed to create a safe operator space by transferring the impact of a falling or thrown object to the cabin structure, a situation not entirely unheard of for an audience working in demolition. The solution is often to put an additional guard that has passed this test, such as a metal grid, in front of the window.

Unfortunately, the metal grid is not a complete operator guard, simply because a grid has unprotected spaces between the bars where stones can pass through and break the window behind. When

accidents occur, like explosions and buildings caving in when they shouldn't, you get propelling and falling stones and debris of all sizes in the air, some of them hitting the machine cab.

To be able to offer the operator a guard that will truly protect him or her from this possibility, the contractors window solution needs to be OPG/Fops Level II tested. An OPG-tested window is tested in the same way as a safety metal grid, in a cab like fixture. This is because the frame and its settings are equally important in serious accidents. They also need to hold large rocks or pressure waves. A fully certified window-and-frame safety solution eliminates the need for a metal grid, not only enhancing operator safety but also the operator's visibility and comfort—factors that not only improve job satisfaction, but can also attract and retain skilled operators.

Workforce knows what's in their interests

Young generations are very well informed about their rights, and they are not interested in gambling with their personal safety at work. They will choose an employer that takes responsibility for this. When you choose your new safety window, always ask to see approved documentation. Do your risk assessment. Respect nature's unpredictability and use your material knowledge. Don't leave the safety puzzle unfinished with one piece missing.

Hammerglass is spearheading an initiative to craft an ISO standard for rigid plastic safety screens, aiming to provide clearer guidelines and better protect machine operators worldwide. Such efforts not only promote safety but also enhance efficiency by minimizing unplanned downtime. It would also facilitate the work of those in charge of their safety - the company owners and the safety officers. There are only winners here.

Unfortunately, these things take time. Yet Hammerglass will take every opportunity it gets to spread its material knowledge and experience to those who benefit from it. Call it a goal or call it a journey, the important thing is that we work together for change and always put people before machines.

www.hammerglass.com



"If I have had a different front screen, I probably would not be standing here today."



Thinking Outside the Box Leads to Profitability

By Jeff Keeling, VP Sales & Marketing, Brokk Inc.

Many contractors have a strong interest in adding a demolition robot and its capabilities to their fleet — but they aren't sure how to justify the price tag. Or, in other cases, a contractor invests in a demolition robot for a specific project and then isn't sure how to maximize the purchase.

The ever-changing landscape of construction and demolition projects makes innovative thinking a must, especially when it comes to adding new equipment to a contractor's lineup. Contractors shouldn't just add equipment; they should ask themselves how they can make sure that equipment is profitable. The secret to profitability with demolition robots is thinking outside the box. The versatility of demolition robots gives contractors options, but it can be easy to get stuck in the small box. Savvy contractors make demolition robots an integral part of their business by expanding into new service offerings by utilizing machine versatility, safety features, and equipment integration.

A different approach

Thinking creatively about robotic demolition machine versatility gives contractors the opportunity to reconsider processes on the jobsite. Unlike many specialized, inflexible pieces of equipment meant for demolishing buildings or removing refractory, demolition robots offer surprising versatility that extends far beyond what contractors might expect from the demo-focused name. Many contractors, after purchasing their first demolition robot, find that the machine comes in handy in more places, allowing them to utilize the machine for multiple applications on a jobsite. For example, a Wisconsin-based sawing and demolition contractor found he could expand his concrete cutting options with the help of a demolition robot and concrete crusher attachment. The addition of the machine gave this contractor higher profit margins and allowed for lower bids because his crew could reduce removal time by more than half. His business ended up expanding from one demolition robot purchased in 2007 to 27 robots by 2020. Additional attachments gave the contractor the ability to effectively remove concrete and rebar, making a safer, more productive jobsite.

To make the most profit off the purchase of a demolition robot, it's important to consider all angles of a project to see where the machine can fit in. Each demolition robot pairs with several attachments, giving operators the opportunity to expand into new applica-

tions. The addition of one simple attachment can make other equipment obsolete.

Some manufacturers even team up with demolition robot manufacturers for specialty application attachments. A contractor in St. Louis used a demolition robot with a custom mounting bracket and specialized drive head to install a series of helical piers for a facility retrofit. In that case, one demolition robot replaced a mini excavator or skid steer and provided a zero-emission installation option for working underground. To get into tight spaces without sacrificing power, some demolition robot manufacturers scaled down their machine sizes. Smaller models of remote-controlled demolition robots perform on par with machines three times their size. The biggest difference between a demolition robot and something like an excavator is the power-to-weight ratio. A 5t demolition robot easily handles a 1,600-lb (726kg) breaker designed to fit a 10t to 17t excavator. The compact size opens the door to all kinds of possibilities to do work in limited access, confined spaces or where floor loads are an issue.

Investing in Safety

The biggest safety advantage demolition robots have is that industry-leading models are remote-controlled. In cases where demolition robots take the place of manual labor and large crews, the machine can do four to five times more labor while reducing contractor liability. Robotic demolition machines provide a safe solution for tackling projects in inhospitable environments such as areas with fall risks, excessive heat, fire hazards, fumes and even toxins. Whether the project is inside a building ready to be demolished, underground in tunnels or even in a kiln, demolition robots remove crew members from danger. The radio link system used for transmission works at a range of up to 984 ft (300m), which allows the operator to work from a safe location in every situation. In some cases, the operator doesn't even need to be in the building while the robot works and can supervise and run the equipment through a video monitor. In another example, a contractor found that the addition of demolition robots cut down on refractory removal and reinstallation times and increased project safety. Relying on the robot's remote operation, the company virtually eliminated falling debris injuries, which resulted in a reduced experience modification rate (EMR) and lower insurance premiums. The contractor also reduced crew size for descaling and de-bricking by 75% while achieving removal rates up to 33 ft (10 m) per hour. Reallocated crew members were then able to increase productivity on other tasks, leading to a boost in overall efficiency.



Contractors should consider ways to automate or expedite the rest of the job to get the most out of their demolition machine whether that means mechanizing the cleanup process with a skid steer, compact track loader or mini dumper, or using an excavator or similar equipment for moving material to the load out zone.



Additional attachments gave the contractor the ability to effectively remove concrete and rebar, making a safer, more productive bridge repair jobsite.

An Integrated Approach

The key to introducing a demolition robot to any jobsite is making sure that the equipment is integrated completely into the processes. The robot will tear down more than a traditional crew can during shorter time periods — but the project can only move as quickly as its slowest process. Without the proper support set up, the robot rests while cleanup efforts drag on. Therefore, contractors should consider ways to automate or expedite the rest of the job to get the most out of their demolition machine whether that means mechanizing the cleanup process with a skid steer, compact track loader or mini dumper, or using an excavator or similar equipment for moving material to the load out zone. Mechanization ensures that cleanup efforts keep up with the addition of the demolition robot on site and that projects are kept moving. Owners and operators are finding other new ways demolition robots can expand business opportunities without losing out on profits. While increasing safety and efficiency for crew is important, it's also important to make sure support equipment and processes are well thought out and on hand to maximize the use of demolition robots. While the machine price tag is a heavy consideration, the benefits outweigh the costs when it comes to remote-controlled demolition machines.

www.brokk.com



With a little creative thinking, a Wisconsin-based sawing and demolition contractor found he could expand his concrete cutting options with the help of a demolition robot and concrete crusher attachment during a bank vault removal.

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What's Up in

If ever a machine was ready made for the realities of the 21st Century construction environment, it's the mini-dumper. Their size makes them the obvious choice for small to medium-sized jobs while also turning what often had been manual labor tasks into more efficient and ergonomically friendly processes. And with so many models powered by readily recharged batteries, mini-dumpers offer a safe, environmentally sound, and low-noise solution for nearly any jobsite setting, indoors and out. Here is a sampling of recent developments in this most intriguing and innovative of product categories.

Mecalac's Revotruck combines cab rotation with exceptional off-road capabilities

Mecalac's new Revotruck allows operators to rotate the entire cab 360° at the touch of a button to keep their vision and focus on the job and obstacles on site while maintaining an ideal, comfortable position. Together with its other features, the Revotruck makes material transport smarter and safer.

According to Mecalac, dumpers account for almost a third of all transport-related accidents on construction sites. The frequency of incidents is particularly high on machines weighing more than 6t, where the accident rate is even more worrying because the quantity of material being transported in the skip obscures visibility as it moves.

To minimize this risk, Mecalac's research and development team carried out an in-depth analysis of worksites, identifying visibility, stability and maneuverability as major issues. These observations were the driving force behind the creation of the Revotruck, an innovative concept developed from scratch to proactively address these challenges. Two sizes are available. The Revotruck 6 offers a traditional 6t

payload and incorporates the latest Mecalac innovations, drawing upon the extensive know-how and heritage in site dumper manufacturing and market. Revotruck 9 provides an increased payload capacity of up to 9t, and also embodies the concentrated excellence observed in the 6t version.

To ensure stability and traction in all ground conditions, Revotruck also features an exclusive chassis with central oscillation. The two oscillating parts of the chassis follow the contours of the ground independently, ensuring stability and permanent traction on all types of terrain. Other features include switchable steering modes (2-wheel, 4-wheel, crab) enabling the dumper to work with agility in confined spaces and with a turning radius halved compared with conventional articulated dumper trucks. Four large access points at each corner of the driver's cab to ensuring safe, effortless access whatever the orientation of the cab. Already the recipient of several European design awards, the Revotruck will be introduced to the U.S. market in October.

www.mecalac.com

Another milestone for Messersì

Over the past six decades, Messersì has become one of the most important and active Italian companies producing compact machines. So it's hardly surprising that Messersì offers what may well be the world's largest selection of compact tracked wheelbarrows and dumpers, with payloads of up to 11,000 lb (5,000kg). The latest step in Messersì tracked dumper projects was showcased earlier this year at Intermat—a new version of the popular 1.5t TC150d tracked dumper. Now featuring an updated chassis and bonnet design and improved dashboard, the

TC150d is a very versatile machine that can be configured according to the task at hand—front skip with loading shovel, swivel skip, hi-tip skip with loading shovel, three-way dumping platform, concrete mixer with loading shovel, and many others. Two piston pumps and the servo-assisted levers make the TC150d very easy to drive in every condition, while the 21.3-hp (15.9kW) three-cylinder Kubota engine give the power to face the worst slopes full load. What's more the new version can accommodate a 24.8-hp (18.5kW) three-cylinder Kubota engine for extra power.

Messersì's all-terrain TC350d is a "real" 7,700-lb (3,500kg) payload track dumper but in a very compact and easy-to drive. It is equipped with the 180° swivel skip with approximately 2.6 yd³ (2m³) volume capacity. Controls are completely pilot-assisted through joysticks assembled on the armrests of the driver's seat, which rotates 180° to keep the operator oriented in the running direction. An electric-hydraulic switch permits to maintain the position of the joystick's control in correspondence with the running direction however the seat is oriented. The TC350d has a 65.1-hp (48.6kW) Kubota common rail engine and diagnostic system to control all the parameters,

and is available with optional closed cab option and 17.7-in (450mm) tracks.

Since 2013, Messersì has faced the challenge of electric propulsion with battery-powered tracked dumpers as part of the Zero Emission line. The TC120e has a capacity of 2,645-lb (1,200kg) and fully electric transmission with two heavy duty electric motors ideal for working in the most demanding conditions. The 48-cell, 15.4-hp (11.5kW) lithium-ion-phosphate battery packs are placed in such a way as to ensure greater stability to the machine. In the standard version, the TC120e Zero Emission is equipped with a bucket with front discharge, but is also available with variable high-dump bucket, with self-loading shovel, with rotating bucket with 180° unloading. It can also be equipped with a radio remote control for remote control.

For smaller applications, Messersì's TC50e has



n the Dumps



an 1,100-lb (500kg) payload and a width of only 26 in (660mm) to navigate standard-sized doors, to access and steer without difficulty even in the narrow spaces of corridors, stair landings. It adopts a mixed electric / hydraulic transmission driven by a 7.4-hp (5.5kW) electric motor powered by a 28-cell Lithium-Iron-Phosphate battery for a 5- to 6-hour work shift. Both Zero Emission models are equipped with a Battery Management System, and can be fully recharged in seven hours.

www.messersi.it

The benefits of JCB's battery-electric dumpers

JCB offers five construction site dumpers, two of which are battery-electric models—the ride-on 1TE which has a 2,205 lb (1,000kg) capacity and the walk-behind HTD-5E with a 1,102-lb (500kg) capacity. Well-suited for both outdoor and indoor jobsites, both machines can give a full day of operation on a single charge using 110V or 220V power, though depending on activity, the machines can sometimes go two or three days between charging. Typical charge time is around 75 minutes. And with the optional JCB Universal Charger, the batteries can be rapidly recharged for extended operation. Just over 10 ft (3.1m) long and 3.66ft (1.1m) wide, the 1TE can traverse most any site conditions with its 10-in (263mm) ground clearance. The high-tip skip allows the dumper to unload material into dumpsters or large containers. The HTD5-E is just 28 in (710mm) wide, allowing it to fit easily through any standard doorway. Its 4.75 ft (1.45m) load over height can accommodate skips or high-sided vehicles. While the 1TE and HTD-5E dumpers and their battery packs are designed to give users the same payload capacity and travel distance as their diesel or gas counterparts, they offer several unique advantages such as no exhaust fumes and



quieter operation—14 dB less noise than diesel or gas models, an increasingly important feature for demolition work around schools, hospitals, and urban settings. Other features include instant torque and response for improved cycle times and productivity, and better operator comfort and less fatigue due to low vibration. The absence of an engine also means lower maintenance and operations costs, and no wasted fuel from idling.

www.jcb.com

Electric pioneer HG Machines expands its horizons

At the forefront of electric construction equipment for more than half a century, HG Machines of Denmark has helped ease the transition by manufacturing what the company says are simple electric dumpers that perform similarly to or better than the traditional combustion engine alternatives. While the company also produces dumpers powered by conventional combustion engines, it nevertheless touts the environmental and health advantages of its emission-free products, which include the 1t E1000, 2t E2000 models. Both are highly regarded for their reliability, minimal maintenance requirements, and user-friendly operation in tight spaces. The 1t E1000 High Tip version has the added benefit of unloading directly over containers and trailer rims up to 49.2 in (125cm) high. All machines feature approximately 12 hours of run time, with only 90 minutes required to recharge the batteries from 20% to 80% capacity. Now, those advantages are coming to North America through HG's recently announced exclusive distribution partnership with Makinex. HG Machines CEO, Nikolaj Birkerød calls the new collaboration "a significant step for HG Machines, as it expands our global reach and ensures that our mini dumpers are readily available to the American market." Makinex will also distribute two of HG Machines' gas-powered mini-dumpers—the 1t H1000 and H1000 High-Tip.

hg-machines.com
makinex.com.au

AUSA redesigns and improves its 6t dumpers

AUSA has launched two new 6t articulated dum-



pers—the D601AHG+ and D601APG+. Building on the success of their predecessors, the new models are equipped with new features to improve functionality and increase safety. The new rear styling combines design with practicality. The size of the bonnet has been increased to provide unrivaled accessibility to the engine and maintenance parts. Air, oil and fuel filters, radiator, tanks are optimally positioned to keep downtime to a minimum.

To comply with new European rollover protection standards requiring enclosed cabs for dumpers with an operating weight of 7,716-9,920 lb (3,500-4,500kg), AUSA provides three different configurations for the D601AHG+



and D601APG+: folding ROPS protective structure with safety rails that are 96% larger than on current models, open cab, and heated enclosed cab. In addition, the D601AHG+ and D601APG+ models will continue to be equipped with safety features such as a seat with a presence sensor, seat belt with buckle sensor, negative brake, and front-view camera. And to help reduce operator fatigue, the new D601AHG+ and D601APG+ dumpers are equipped with a high-comfort seat with built-in suspension, ensuring comfort in the vehicle and reducing tiredness during long working days. Earlier this year, US-based Oshkosh Corporation announced that it had acquired AUSA, providing a new product brand to complement its JLG® line of telehandlers and Hinowa-manufactured tracked dumpers and forklifts to strengthen the portfolio of Oshkosh's Access segment. The companies began working together through a partner agreement in 2020, with AUSA manufacturing the JLG-branded SkyTrak® 3013 compact telehandler.

www.ausa.com

DMI's little electric helper

Everyone can use a little help around the jobsite, and the E50 electric wheelbarrow from DMI Tools of Utah is an ideal solution for all kinds of transport operations. Bottom of Form Debuted at last year's

World of Concrete, the DMI E50 easily moves loads up to 1,100 lbs (500kg) and is absolutely silent thanks to the pure electric drive, which includes a 100kW 48V brushless DC motor.

An extremely slim design and compact dimensions allows the DMI E50 to pass through narrow gates, paths, and doorways. Motoring up to 3.1 mph (5 kph), the DM150 stops on the proverbial dime with an electromagnetic brake. Along with a payload capacity of 8.34

ft³ (.24 m³), the electric tilt function makes any loading and dumping job easier. The 48V/32A lead-acid battery lasts 8 to 10 hours, depending on activity, and can be recharged for another day's work in about 7 hours.

www.dmitools.com

Twinca dumpers promote environmentally sound safety

Twinca's E-model mini-dumpers combine classic machine elements with the latest available battery technology. According to the company all models feature a safety device pre-mounted to the steering mechanism that reverses the direction of motion when activated. In this way, the driver is never in danger of being squeezed between a structure and the machine. The tipping point is placed correctly in proportion to the front-axle in order to support the stability and safety

of the operator and prevent the mini-dumper from falling over. The skip, made of high-strength steel, is geometrically designed in a trapezoidal shape to allow material to slide freely during discharge.

The Twinca range begins with the E-500, with a load capacity of 1,100 lb (500kg) and a height of 37.4 in (950mm) for comfortable loading. The machines' auto-steering mechanism reduces the need for physical manpower to a minimum level, even when the mini-dumper is heavily loaded. An adjustable steering mechanism ensures the operator has an optimal ergonomic working position and reduces the physical workload. Topping the Twinca range is the ES-800 model with a loading-capacity of 1,764 lb (800 kg), which is ideal for larger construction site tasks such as e.g. demolition. The ES-800 is equipped with hydraulic high lift. With an unloading-height of up to 55 in (1,394mm), the ES-800 guarantees a safe, easy and problem-free unloading process. A fully charged battery can run the machine throughout a full working day and can be recharged within 5 to 6 hours.?

www.twinkadumper.com

Wacker Neuson DV45 is loaded with technology

Introduced last year, Wacker Neuson's ride-on DV45 Dual View Dumper features a hydraulic swivel tip skip with a maximum payload of 9,259 lb (4,200kg). At the press of a button on the right joystick, an electro-hydraulic system rotates while stationary or in motion. Wacker Neuson says this feature allows the operator to work in a detailed and precise manner when backfilling trenches or navigating obstacles, preventing



accidents and damage in the process.

The DV45's optional Multi View mode provides the ability to work with a cabin turned to the side, allowing the operator to see the entire lateral work environment and empty the load accurately. Multi View mode also automatically reduces speed for greater safety. The skip can be automatically returned to the transport position at the push of a button, during which the machine can be operated normally.

Safety features include an inclination monitoring system that the operator if the machine is tilted in an unsafe standing position or becomes unstable, the inclination monitoring intervenes and warns the operator. An optical and acoustic signal display both the speed limitation with the skip tilted in an unsafe position as well as an unstable machine position.

The machine also includes an Active Sense Control (ASC) radar system that warns the operator of approaching objects. ASC scans the machine's surroundings in real time for possible obstacles. Where necessary, the system promptly slows the machine down and, if required, it will also bring it to a standstill. Even trailer operation or tight parking maneuvers have been considered: the system can be switched to blind for a short time so as to not impede the operation.

www.wackerneuson.com

Meet the Toro E2500 Ultra Buggy

Exceptional runtime and a compact design make Toro's E2500 Ultra Buggy nimble and convenient. Powered by the Toro-developed HyperCell® battery technology, the Ultra Buggy matches the power of the manufacturer's traditional gas-powered products, and is optimized to deliver up to eight hours continuous runtime. The machine and its components, including the thick polyethylene tub—have been designed and tested to achieve a 2,500-lb (1,136 kg), while the 31.5-in (801mm) width allows easy access through standard doors. A zero turn-radius allows navigation in tight and hard-to-access areas. Mounted directional and dump switches provide the operator continuous motion on the machine and eliminates the need to fully stop the machine to change direction or dump the load. An auto-return dump feature ensures the tub automatically returns to the resting position so the operator can focus on retrieving the next load.

www.toro.com



The Scoop on Site Dumpers

By Peter Bigwood, General Manager,
Mecalac North America

If you visit a construction jobsite in Europe, chances are you will see a site dumper. In fact, over the course of the project, you might see a whole fleet of site dumpers.

The crew will probably start by using a 9t model as they clear the site, transition to a 6t when they're moving material, then go down to the 3t as the houses start going up. Lastly, they'll break out their 1-ton site dumper to put the finishing touches on landscaping. You're less likely to see a site dumper in North America, much less an entire fleet. However, contractors looking for compact equipment solutions that offer more for their investment are starting to take notice of the factors that make the equipment so popular overseas. With advanced safety features and a compact footprint, site dumpers offer outstanding efficiency and safety on all jobsites — especially those where space is at a premium.

Current Site Dumper Market in North America

While contractors in Europe, accustomed to compact jobsites, have long appreciated the benefits of the site dumper in industries ranging from construction to agriculture, aggregate, landscape and more, North America's wide-open spaces invited and allowed larger equipment. Now, as urban sprawl continues and jobsites become smaller with heightened safety concerns, contractors across multiple industries are reconsidering the site dumper. Many concrete contractors already embrace site dumpers. With numerous concrete jobs requiring the delivery of concrete in tight areas that simply won't accommodate a large mixer truck or pump truck, site dumpers paired with an optional chute accessory offer a viable and efficient solution. The optional chute attachment provides an added benefit of precisely dumping the concrete without splashing, effectively minimizing the cleanup that is often required with larger trucks. The popularity of the site dumper in North America extends beyond the concrete industry into landscaping applications as well. Originally gaining traction in hardscaping applications, site dumpers now operate on golf courses and cemeteries. The interest in these segments rests on the benefits of high flotation, low-impact tires, which limit disruption to the turf or ground as work is completed. This protects the manicured surfaces of golf courses and cemeteries and minimizes the time and cost associated with the repair of torn-up turf.

Growing Popularity This Side of the Pond

While the benefits of site dumpers shine in key applications, growing market challenges are casting a spotlight



Unlike skid steers, site dumpers swivel and tip material out of the bucket without the need to reposition the entire machine.

on the efficiency and safety benefits site dumpers offer. With the increasing popularity of mini excavators and skyrocketing demands for infrastructure, site dumpers offer the ideal complement to a growing number of jobsites for a variety of reasons.

Perhaps at the heart of expanding acceptance is the enhanced efficiency site dumpers offer over traditional equipment solutions. With a skid steer, contractors end up making more trips hauling material back and forth, often just clearing it out of the way and re-loading it again later to haul to a final destination. With a site dumper, on the other hand, operations leave the material in the skip until it is completely full, then easily haul and tip it out. Additionally, site dumpers drive productivity because the skip has a capacity double that of the common skid steer bucket. Some manufacturers offer 3t models with a capacity of up to 1.3 yd³ (1 m³) for liquid material such as concrete, 1.7 yd³ (1.3 m³) for struck material such as aggregate, and 2.5 yd³ (1.9 m³) for heaped material like mulch.

A more compact design and tighter operating footprint further enhances efficiency. The forward and swivel tipping mechanisms of site dumpers allow contractors to maintain a small jobsite footprint and improve safety. Unlike skid steers, site dumpers swivel and tip material out of the bucket without the need to reposition the entire machine. This allows operation in tighter spaces and minimizes additional maneuvering around an already tight jobsite, further benefitting site safety.

Considerations for Site Dumper Selection

While site dumpers may seem like pretty simple and straightforward equipment solutions, don't be fooled into thinking the only difference between them is the paint and the price. Many features, though subtle to the eye, greatly affect things like safety, ease of operation and performance. It's important to pay attention to some key details. As sites get smaller and pressures increase to get more done, a keen focus on safety



Site dumpers drive productivity because the skip has a capacity double that of the common skid steer bucket.

protects not only the operator but the entire jobsite and the company as a whole. Site dumpers designed with precise attention to detail ensuring perfectly symmetrical wheels equal distance from the center post of the machine maximize safety and stability even while driving through heavily rutted areas in mud or other unstable terrain. This reduces or eliminates the risk of tipping and provides a smooth ride. Additionally, some manufacturers offer designs with articulated steering, ensuring that back wheels follow the same path as the front, further enhancing safety and stability.

With current labor shortages, especially a lack of skilled or experienced labor, ease of use and intuitive controls present another key consideration. Contractors gravitate toward models with controls that are easy to learn and use, benefiting safety, and allowing for a lower barrier to entry for operators at any experience level. Finally, some manufacturers produce site dumpers with engines rated under 75 hp (56 kW). This helps avoid diesel exhaust fluid (DEF) and diesel particulate filter (DPF) related maintenance.

As the array of site dumper benefits — including capacity, efficiency, safety and reduced diesel maintenance — become more apparent in North America, the growth of the site dumper market will undoubtedly increase.

www.mecalac.com

Develon Debuts DX100W-7 Mini Wheel Excavator

Develon has the perfect solution for navigating cramped, congested urban job sites—the DX100W-7 mini wheel excavator. The DX100W-7 is the ideal combination of compact and agile. A spacious cab, with low noise and vibration levels paired with all-around visibility, makes long days on the job site more comfortable and productive. Three steering modes—2-wheel, 4-wheel crab, and 4-wheel round—help operators customize their performance to move and work within confined spaces. An innovative articulated boom, and boom swing features an additional pivot point, which enhances working range, lifting capacity and digging force.

The DX100W-7 has a 1.35t counterweight for improved digging and lifting performance. It also features a large hydraulic capacity, so it can effortlessly hoist and maneuver heavy loads while minimizing fuel consumption. For improved control, the standard 1-way/2-way switch lever provides hydraulic flow that is activated through the joystick, not the pedal. One-way hydraulic flow is ideal when using such attachments as hydraulic breakers and plate compactors, whereas two-way



hydraulic flow is best when using hydraulic thumbs (clamps), rippers and grapples. Operators can work efficiently and safely with the exclusive parallel dozer blade and independent rear outriggers (stabilizers). The dozer blade helps pull, push and mix materials, while the rear outriggers add stability and minimize damage to surfaces like asphalt. For enhanced visibility, the DX100W-7 comes standard with a high-illumination LED light system, including one additional working lamp. Also standard is the around view monitor (AVM) camera system

with a 270-degree view, equipped with ultrasonic sensors. The sensors increase the safety on the job site by alerting operators of nearby objects as they back up the machine.

A standard overload warning device is another safety feature and protects the machine against excessive wear and tear. It warns operators when the excavator is approaching or exceeding its maximum load capacity or safe operating limits, helping minimize tipping or structural failures.

www.na.develon-ce.com/en

Buckingham Heavy Transport On the Road to Success in the US



Buckingham Heavy Transport, a specialist in oversize and heavy haul transport, recently mastered three challenging jobs with flying colors. The vehicles used included THP/DC dual-lane heavy-duty transporters and PST/SL-E self-propelled modules from transport specialist Goldhofer.

"With Goldhofer's heavy-duty modules, we're equipped for the wide range of superloads that we're asked to transport," says Buckingham Project Manager Mike Brovont. "Whatever the industry specifications or challenges of the move route or job site, Goldhofer equipment gives us innovative options to safely and successfully deliver each load to its destination."

The first project, transporting a 218t transformer for a power plant, involved the use of a 12-line Goldhofer THP/DC transporter. A big advantage of the THP/DC is that vehicle width can be changed while rolling. This translates into reduced journey times and long service life with low maintenance requirements. In addition, wireless remote control makes widening, leveling, and steering extremely user-friendly.

Thanks to this unique widening system under full

load, transporter width could be increased from 12 to 18 ft (3.6 to 5.5m) after negotiating some tight bends in order to maneuver out of the rail siding. In spite of various challenges, including a steep level crossing requiring use of the full 27.5-in (700mm) suspension stroke, and the need to disconnect seven power lines along the route and also to fill a pit with gravel and cover it with steel plates, the

Buckingham team had no difficulty in getting the transformer safely to its destination.

The THP/DC modules also demonstrated their strengths in the second job involving transport of two heavy pressings. Using a 10-line Goldhofer THP/DC transporter with gooseneck and 14-ft (4.3m) basic width, the Buckingham team was able to obtain permits to drive the 113.5t pressings through eight states – thanks to the flexibility of the rig in terms of vehicle width. The last job involved transporting a 225t slug catcher over a distance of 50 miles (80.4 km). The key to this operation was the impressive capabilities of Goldhofer's PST/SL-E self-propelled transporters. The challenge was to offload the slug catcher from a barge and onto the PST modular transporter and then drive it up a steep grade from the river to the transload site.

Thanks to the Goldhofer PST/SL-E with maximum 45t axle load and a huge 180 kN tractive power per drive axle, even this challenge was no problem for the Buckingham team. With the help of electronic multiway steering, the slug catcher was maneuvered precisely to the transload site, lifted onto a 12-line Goldhofer THP/DC transporter and delivered safely to its destination.

www.goldhofer.com



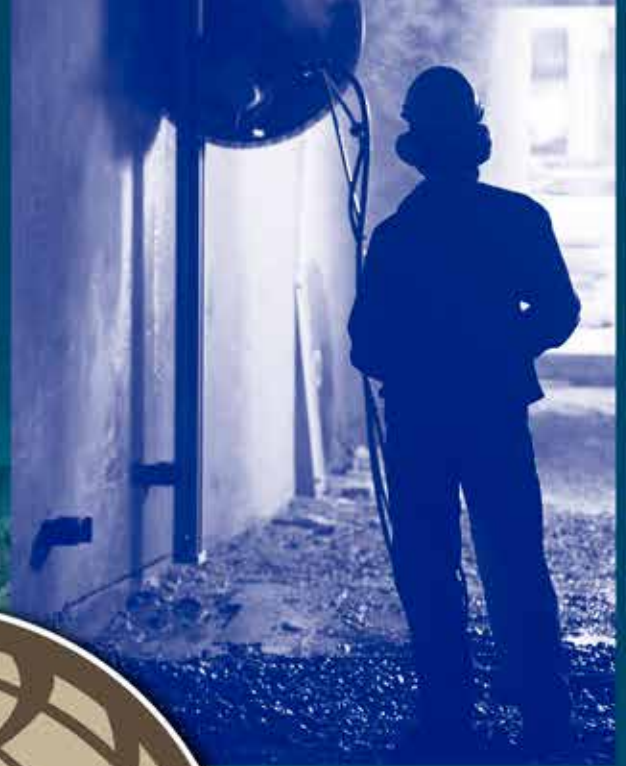
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Meet Takeuchi's TB350R Compact Excavator

Takeuchi's TB350R Series 3 compact excavator features the latest technology and a short tail swing design that makes it ideal for working in tight or confined spaces. Inside the cab, a multifunction color monitor with touch screen places a wide range of functions at the operator's fingertips. A dedicated coupler circuit on cab models allows for the quick and easy exchange of various hydraulically driven attachments. A jog dial with one-touch controls lets operators easily control throttle position and multiple machine functions.

The TB350 also offers greater working ranges, including a dig depth of 11 ft, 8 in (3.6m), maximum reach of just under 20 ft (6m), and maximum dump height of just under 12 ft (3.7m). Thanks to its high-flow primary auxiliary circuit, the TB350R is ideal for multiple applications, including excavating, demolition, land/vegetation management, general contracting, landscaping, rental and residential, and commercial construction.

takeuchi-US.com



Sennebogen's New G-Series Recycling Material Handler

Sennebogen material handlers have been shaping the machine landscape in waste recycling for years. Now, the introduction of the powerful and versatile 826 G-Series expands the product portfolio and sets new standards in efficiency and reliability.

With an operating weight of 26-28 tons, the 826 G is the ideal solution for waste recycling, scrap, and timber applications. The new model lifts an impressive 4.2 tons at a reach of 34.5 ft (10.5m) and can handle a correspondingly large amount of material per work cycle with its robust equipment. Equipped with a 170.3-hp (127-kW Stage V diesel engine, the state-of-the-art machine is particularly environmentally friendly and economical.

Robust components and intelligent design ensure that the machine retains its value over the long term, even during demanding continuous operation in challenging working environments such as extreme weather, heat, or high dust levels. A large system performance paired with further optimized hydraulics also ensures outstanding

efficiency. The 826 G proves to be a universal all-rounder in the recycling or scrap yard with its wide range of different equipment options for a wide variety of application-specific solutions. Thanks to its extremely robust design, the Maxcab, which can be raised by 9.1 ft (2.8m), also guarantees smooth and fatigue-free work, even when driving at high speeds. The spacious cab is comfortable and roomy, with a panoramic window that provides an overview of the entire working area and ensures maximum safety. Cameras and numerous other safety features ensure optimum protection for people, surroundings, and the machine itself.

The new maintenance concept of the 826 G-series offers clearer and simplified access to service points such as the central lubrication system and the tanks, making day-to-day maintenance easier. A large "E-Box" houses central electrical distributors and electronic modules, protecting them from environmental influences. Other technological innovations extend the machine's overall service intervals.

www.sennebogen.com



Versatile Atomized Mist Cannon Offers Pressurized Stream Option

In response to input from customers across the demolition and bulk material handling sectors, BossTek has introduced a powerful new mobile mid-sized dust control cannon. The DustBoss® DB-45 Surge® is the next iteration of the popular Surge series featuring an innovative pressurized center nozzle paired with the industry-proven fan and misting ring system to suppress both surface dust and airborne particulates.

With three remote-controlled stages and precision oscillation for optimum command over water volume and coverage area, the DB-45 Surge delivers the dependability of atomized mist along with J2P (jet-to-plume) nozzle technology that surges more than 200 ft (60m), even in troublesome windy conditions. The result is an easily maneuverable, autonomous, and versatile dust control solution for outdoor operations in all weather conditions.

Demolition contractors with high-reach cranes, port operators that host tall cargo ships, and bulk handlers with tall stockpiles of raw material commonly experience windy conditions high above the ground. In turbulent situations, dust is lifted into the atmosphere and carried beyond the site line over long distances, which can lead to permit violations. Operators often mitigate particulate emissions using sprinklers or hoses to saturate a material's surface. The stronger the wind, the more water pressure is required to break through the wind shear, resulting in greater amounts of water filling the surrounding work area—often 300 gpm (1,135 lpm) or more.

The DB-45 Surge combines the power of a 25-hp (18.6kW) industrial fan, misting ring and heavy-duty barrel with the reach of a central high-pressure spray nozzle. The misting ring introduces millions of



The far reach of the J2P (jet-to-plume) nozzle allows for greater precision when controlling dust emissions.

tiny dust-capturing droplets into an area for proven dust suppression. The pressurized spray resists wind shear and uses the force of the wind to further fragment droplets, enhancing its dust suppression capabilities. This is achieved with a maximum of 72 gpm (372 lpm) and as little as 17 gpm (77 lpm) when using only the misting ring and fan. The cannon also features a variable frequency drive, which allows the unit to operate more efficiently at lower water pressure.

The three stages are easily input by the touch screen system, protected by a sealed NEMA 4 cabinet or controlled by a heavy-duty hand-held remote control with a 1,000-ft (305m) range. Stage one is highly effective on moderate days and uses the powerful 30,000 ft³/min (849.5 m³/min) fan and misting ring for wide area coverage. For windy days, stage two features a pressurized stream delivered by the J2P nozzle to pinpoint the source of the dust. On high-wind days, operators can choose stage three which utilizes the fan, misting ring, and center nozzle for maximum coverage.

This allows the DB-45 Surge to be “set it and forget it” autonomous equipment, unlike hoses and industrial sprinklers, which typically require constant manual labor to monitor and operate. Manual operation keeps workers in active zones near moving equipment, increasing the chance of injury and raising the costs of operation for sprinklers and hoses due to extra labor and possible liability.

While striving to stay compliant with dust regulations, operators can now better match the water requirements to the specific application with

the DB-45 Surge. Fed by a standard 1.5-in (38mm) hose with a cam-and-groove quick disconnect coupling, the powerful booster pump delivers as much as 500 psi (27.5 bar) of water pressure to the center nozzle.

The coverage area is extended with the customizable 260° horizontal oscillation range and 0° to 50° vertical throw angle. Mounted on a heavy-duty roadworthy trailer for towing at highway speeds with a standard ball hitch, it can be placed by a pickup truck, skid steer or lift truck wherever dust suppression is needed. As supplied, the DB-45 Surge can run potable or non-potable water, as it is equipped with two in-line 30 mesh, 595 micron filters to avoid clogging. One filter is located at the water entry point to the booster pump and another is located prior to the pipe feeding the central nozzle.

bosstek.com

DustBoss DB-45 Surge Fusion features a genset on a mobile carriage for greater versatility.



With the central pressurized J2P (jet-to-plume) nozzle, the unit offers excellent reach and wind resistance. All photos © 2024 by BossTek.





ANY ATTACHMENT ANYTIME

“WE SAVE AT LEAST TWO HOURS IN TOOL CHANGES – EACH DAY”

Says Sylvain Marié, excavator operator at Avenir Deconstruction.

- OilQuick helps us save time. On this site for example, where we demolish a five-story building floor by floor, in a nine-hour working day we save at least two hours when it comes to changing attachments.
- The work has also become safer, and oil spill is no longer an issue, says Sylvain.

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- Meets and exceeds safety standards globally.
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- Protected hose routing.
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Deep-Core Drilling Ensures a Safe Setting for German Bridge Project



The OB-Karl-Lehr Bridge in Duisburg is one of the most important transportation routes for Duisburg

The OB-Karl-Lehr Bridge in Duisburg, Germany, is one of the region's most important transportation routes for the city's port logistics traffic. Dating back to the 1940s, the bridges are being replaced as part of a unique mega-project that has already seen the new structures completed

and carrying traffic. Construction is not complete, as the new bridges are to be relocated to the footprint of the predecessor structures. For this purpose, the final piers and abutments, founded on bored piles, still have to be built on the old positions. In order to ensure that any leftover wartime ordnance has been cleared and work can proceed safely, parts of the existing structure were core drilled in advance with special deep core drill bits from Tyrolit.

In order to adapt these piers to the new conditions, construction contractor Max Bögl performed various core drillings in the existing piers and abutments. These explor-



The construction site at the OB-Karl-Lehr Bridge

At left, all the necessary core drillings for the explosive ordnance detection were completed in just one week.



The already assembled screw drill bits were moved to the right places by crane.

atory drillings with diameters of up to 10 in (252mm) and depths up to 16 ft (4.9m) had to be carried out to detect explosive ordnance. As the concrete dated from the war years and therefore contained a lot of abrasive sand, Max Bögl chose Tyrolit screw drill bits for these bores, which were ideally suited to the task. With a drilling lifetime of nearly 16.5 ft (5m), the necessary bores were completed within a week with these special drill bits.

"The Tyrolit screw drill bits were the right choice for this job," Xaver Mederer of Max Bögl. "We were also able to rely on the know-how of an experienced application engineer from Tyrolit, which helped us a lot in this task. We would definitely work with them again!"

www.ob-karl-lehr-bruecke.de
www.max-boegl.de
www.tyrolit.com

Sennebogen 830 E Aids Selective Deconstruction of a German Car Dealership



Rebuilding and modernizing large multi-brand car dealership in Germany required gutting and demolition of the front part of the building to make room for the dealership's new variety of brands. To accomplish this delicate job, contractor Metz Erdbau chose the Sennebogen 830 E material handler for the work.

The 830 E was the perfect tool for the

heavy concrete walls of the top floor to be cut through with the demolition shears almost at eye level so that they do not thunder to the ground in their entirety. The heavy work at the height of the top floor requires the highest level of safety for the machinery and the team.

And because a demolition excavator handling heavy work at high reach needs a large stand width, the 830 E's telescopic crawler tracks can create a base of more than 14.7 ft (4.5m). The Sennebogen machine's service points are clearly arranged. Specially developed lubricants SENlube and SENprotect perfectly matched to the machines help reduce fuel and maintenance costs and prevent wear.

sennebogen.com

project's location in the middle of a residential area. The two-piece equipment enables precise work at lofty heights, while the quick coupler allows attachments and grabs to be changed individually, depending on the work application. The sorting grab, which can be easily and conveniently coupled from the cab at the push of a button, can be used in between to tidy up the job site and pre-sort the demolition debris for recycling. That means a variety of tasks can be completed with just one machine, saving time and costs. As the machine operator for the job says that with the sensitivity of 830 E, "it feels like the machine grab is my hand, able to grip the individual materials directly with my fingers."

Safety first: The overriding motto on a demolition site

The elevating and 30-degree tilting cab of the Sennebogen 830 E provides a perfect view of the upper building elements. This allows the



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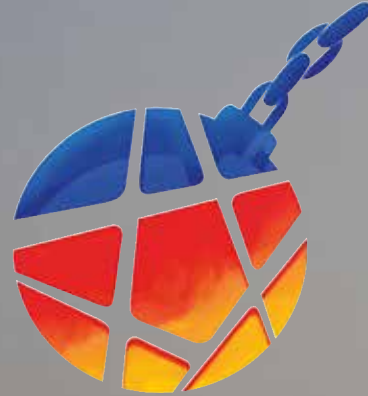


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Take Your B

The process behind shot blasting has been around for more than 150 years. But as a surface preparation method, it couldn't be better suited for the 21st Century.

For example, shot blasting is both cost- and time-efficient, allowing contractors to ready large areas quickly, and meet accelerated project schedules. It's also clean environmentally friendly, reusing most of abrasive media throughout the process. And it's

easy on the operator, as the work can be performed comfortably while standing. With these and other benefits becoming more important to surface preparation contractors, it's no wonder that this product sector has seen significant consolidation over the past few years. Corporate acquisitions, rebranding, design enhancements and other changes have smoothed the way (literally and figuratively) toward a new market landscape. Here are some of the segment's highlights.

Von Arx vaults into product segment with IMPACTS

The new year began with word that Swedish surface preparation specialist Von Arx had acquired Germany's IMPACTS, a company that in just two decades had

established a worldwide reputation for its high-quality shotblasting equipment, innovative technology, and customer-focused service.

Von Arx owner and CEO Fredrik Akermarck says the acquisition of IMPACTS "widens our product portfolio, reinforces our presence in the surface preparation market, and enables us to create a home market in Germany for both IMPACTS and Von Arx branded products."

Akermarck adds that IMPACTS will retain its current brand, as well as its Germany-based manufacturing operations and international distribution network. Some products to be marketed under the Von Arx name in Italy, Spain, and the US. Among the most popular models in IMPACTS's product line is the STREAMER S210E, which the company says is the first mobile shot blaster in the world with an "inline separation system" that allows a 100 % increase of the blasting capacity compared with other machines working on single phase 230V AC. Other leading shot blasters are the STREAMER S320E and 600E, both of which are designed for work on medium-sized horizontal surfaces, and the 23.7-hp (17.7kW) STREAMER S320SD ride-on blast machine. IMPACTS also manufactures dust collectors for shot blasters and three models surface prep grinders. Von Arx, inventor of the scarifier machine, has grown quickly over the past four years and developed several new products, making the addition of IMPACTS a natural part of that evolution. "IMPACTS' product range together with extensive experience and knowledge in the surface preparation industry will add invaluable value to Von Arx," Akermarck says.

www.vonarx.com
www.impactsgmbh.com

Tyrolit teams up with Contec

Just a few months later, international concrete drilling and grinding specialist Tyrolit became majority owner of longtime German surface preparation equipment manufacturer Contec. In addition to shot blasting systems, Contec is also well known for its floor milling and stripping machines, grinders, and



Best Shot...!!



extraction systems. Small wonder, then, why Andreas Sauerwein, a member of Tyrolit's executive board, called the acquisition as a "significant step forward" in expanding the company's presence in the area of floor grinding and surface preparation, "and offer even more comprehensive solutions to our customers."

Contec's previous owners remain actively involved in the company, Tyrolit says, to ensure a seamless integration while also preserving the brand's specialized expertise. Leading the now-rebranded Tyrolit shot blasting line are the 10-hp (7.5kW) FBE200

and 15kW FBE350 machines. Touted by the company as the perfect choice for mobile, dust-free shot blasting, the smaller FBE200 and its five-bladed blastwheel combines high productivity with low overall height and weight, while the FBE350 is a professional-level system with a six-bladed blastwheel designed for large area and very hard concrete floors or coatings. Weights for the FBE200 and FBE350 are 463 lb and 970 lb (210kg and 440kg), respectively.

Tyrolit says adding the expansion module increases both units' shot blasting width—even doubling the 13.8-in (350mm) coverage of the FBE350. Both machines come with a modular design, expanding the range of applications. Their drive units enable an ever and infinitely adjustable feed. Maintenance for both machines can be carried out easily on site without special tools and with little loss of time.

www.tyrolit.com



Husqvarna builds on Blastrac

Husqvarna's presence in the shot blasting sector dates to late 2020, when the company acquired Blastrac and its specialized product portfolio. Now fully integrated under the Husqvarna brand, and combined with the company's earlier acquisition of HTC, the line of shot blasters, steel blasters, and related dust collectors provides a solution for any surface preparation challenge, Husqvarna says.

"We're committed to support our customers all the way – before, during, and after their projects," says Stijn Verherstraeten, Husqvarna's senior vice president-concrete surfaces and floors. "We have dedicated teams for surface preparation in our key markets and are continuously investing in internal and



customer training programs to enhance competence in removing, preparing and refining floors.”

The range of walk-behind shot blasting machines begins with the 10.6-hp (7.9kW) Husqvarna Blastrac 1-10DPS75 with a 10-in (254mm) working width suitable for medium to large sized surface preparation applications and designed for easy operation and transport. Next up is the 28.3-hp (21.1kW) Husqvarna Blastrac 2-20D, a professional heavy-duty machine with a 22-in (559mm) working width and equipped with a height adjusting system for easy transport. Topping the range is the 78-hp (58kW) Husqvarna Blastrac 2-48DS with a 48-in (1,219mm) working width. With two powerful blast motors, Husqvarna says the 2-48DS is well-suited for large heavy-duty work and can be used on different surfaces like concrete, stone, asphalt and steel. All Husqvarna Blastrac shot blaster models feature a drive motor for self-propelled operation, helping maintain speed on ramps and inclines.

NEC's Apex line delivers peak efficiency

National Flooring Equipment asserts that its Apex series of shot blasters combines elements of traditional blasting and new innovation. The series begins with the A95, a compact and versatile machine that the company says is ideal for small to mid-size applications. The 1.5-hp (1.12kW) machine has a blasting width of 8 in (20cm) and a blasting capacity of 430.5 ft²/hr (40m²/hr). The height-adjustable handle provides built-in operator controls while front swivel casters increase maneuverability and control for a more uniform and consistent profile. The close-faced blast

wheel design directs more steel abrasive to the surface, resulting in lower maintenance costs.

The 8-in (20.3mm) sister machine A96 has a blast capacity of up to 860 ft²/hr (80m²/hr). Weighing 350 lb (159kg), the traditional rear-moving design of the 5.3-hp (4kW) machine helps maintain even profiles, while the unique joystick control allows for more responsive handling. The machine's reverse operation



allows more control over positioning, direction, and line overlapping. Topping the Apex line is the 10-hp (7.5kW), 10-in (25.4cm) A97 that can cover up to 2,000 ft²/hr (185m²/hr). A unique joystick control allows responsive and intuitive handling, while the machine's slight leftward pitch allows for edging within 1/8-in (3.175mm)

of the wall. The adjustable handle height and joystick platform allow for infinite operating positions. Each Apex model can be paired with a National Flooring Equipment dust collector to further maximize efficiency. A full range of accessories is also available.

nationalequipmentdirect.com

NEC Technical Data

The A95 is the first in National's Apex series of shot blasters. It is a compact and versatile machine, ideal for small to mid-size applications.

Width:	12"	30 cm
Blasting Width:	8"	20 cm
Max. Height:	41"	104 cm
Min. Height:	34"	86 cm
Max. Length:	43.4"	110 cm
Min. Length:	37"	94 cm
Weight:	121 lb	54 kg
Speed:	Manual	
Blasting Capacity:	430 sq ft/hr	
Voltage:	115	
HP:	1.5	1.12 kW
Amps:	17	
*20A breaker required		
National's A96 is a variable speed, self-propelled shot blaster that combines the elements of traditional shot blasting and new innovation. The unique joystick control increases productivity and allows for more responsive handling.		
Width:	13.5"	34 cm
Height:	44"	112 cm
Length:	57.5"	146 cm

Blasting Width:	8"	20.3 cm
Weight:	350 lb	159 kg
Blasting Capacity:	up to 860 sq ft/hour	up to 80 sq m/hr
Voltage:	230	415
Amps (Circuit):	30	16
HP:	5.3 HP	

- * The A96 is an 8" shot blaster with a blast capacity up to 860 ft²/hr.
- * LED lights illuminate your path in dark spaces
- * Traditional rear-moving design helps keep your profile more even

National's A97 shot blaster combines the best aspects of traditional blasting with new features designed to increase efficiency and productivity on the job. Built from the strongest Manganese steel that becomes stronger as it hardens over time.

Width:	15.25"	39 cm
Height:	44"	112 cm
Length:	63"	160 cm
Speed:	up to 2,000 sq ft/hr	up to 185 sq m/hr
Weight:	430 lb	195 kg
Blasting Width:	10"	25.4 cm
Voltage:	230	415
Amps (Circuit):	30	16
HP:	10	



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www.husqvarnaconstruction.com